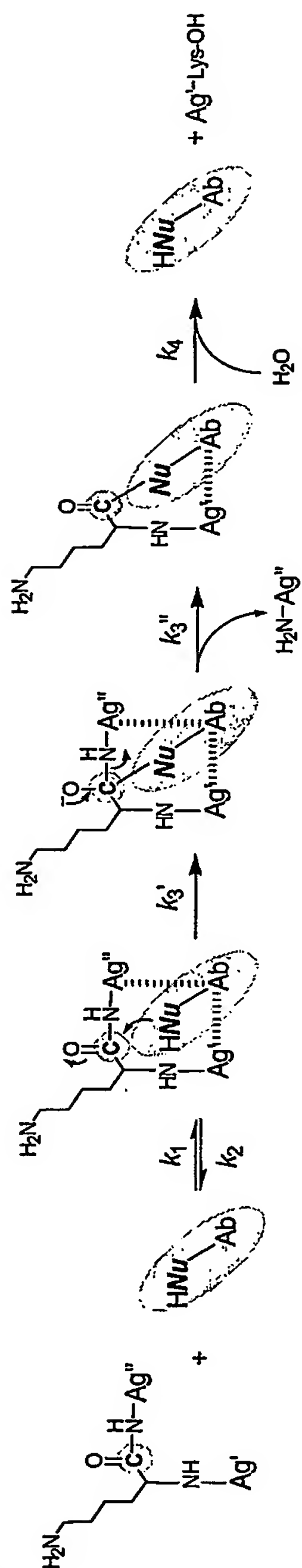
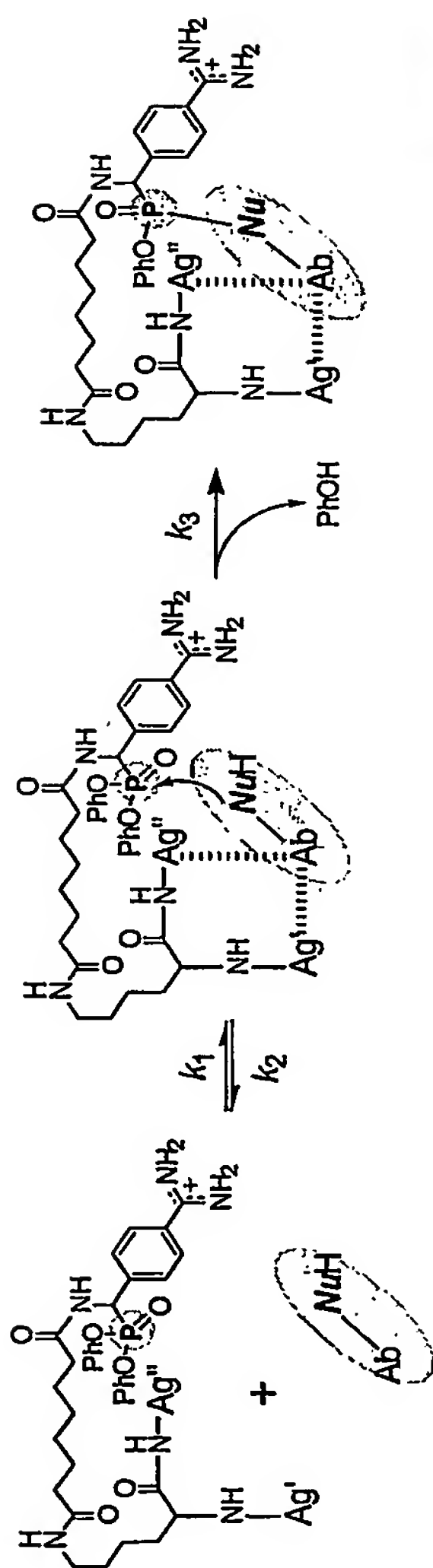


Fig 1

A



B



C

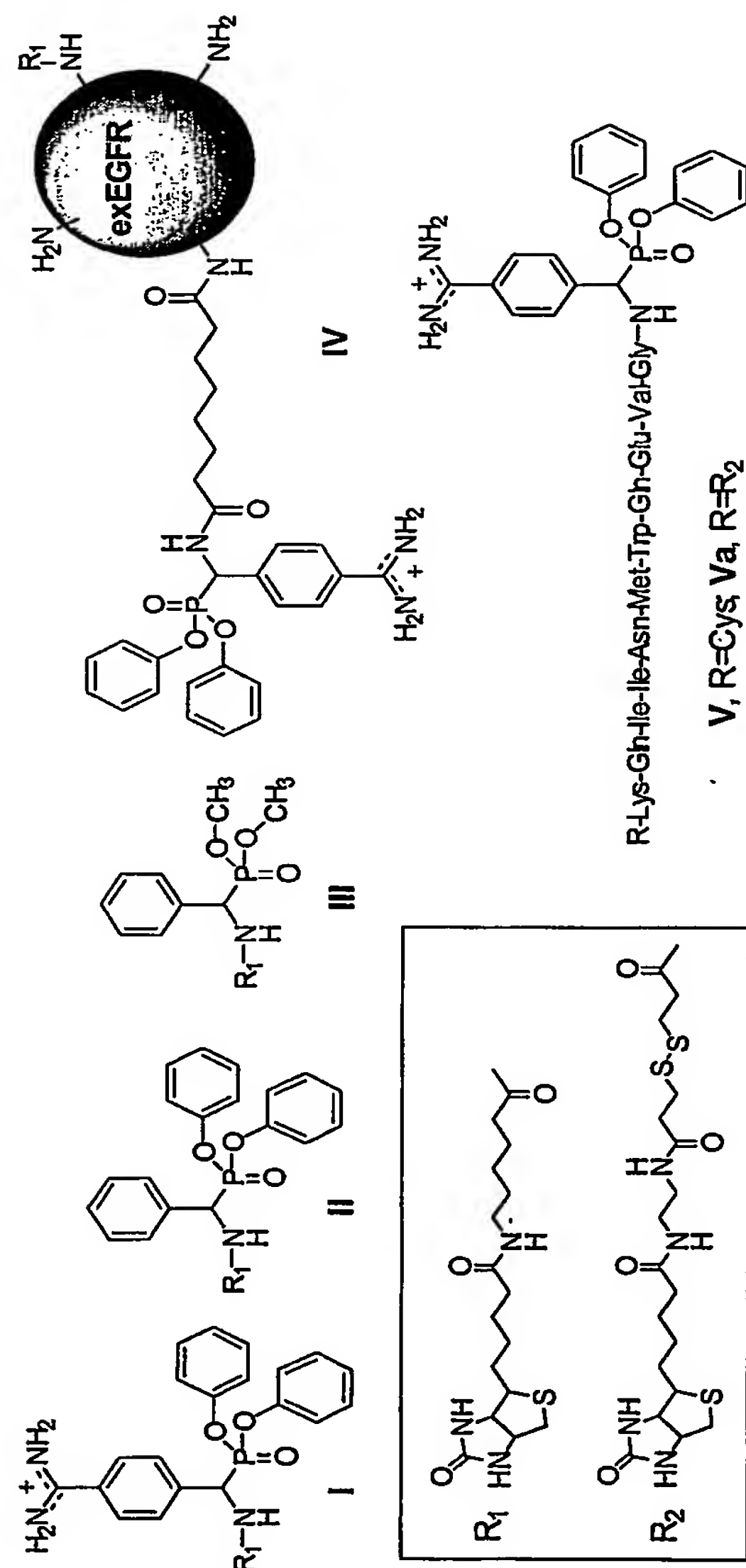


Fig 2

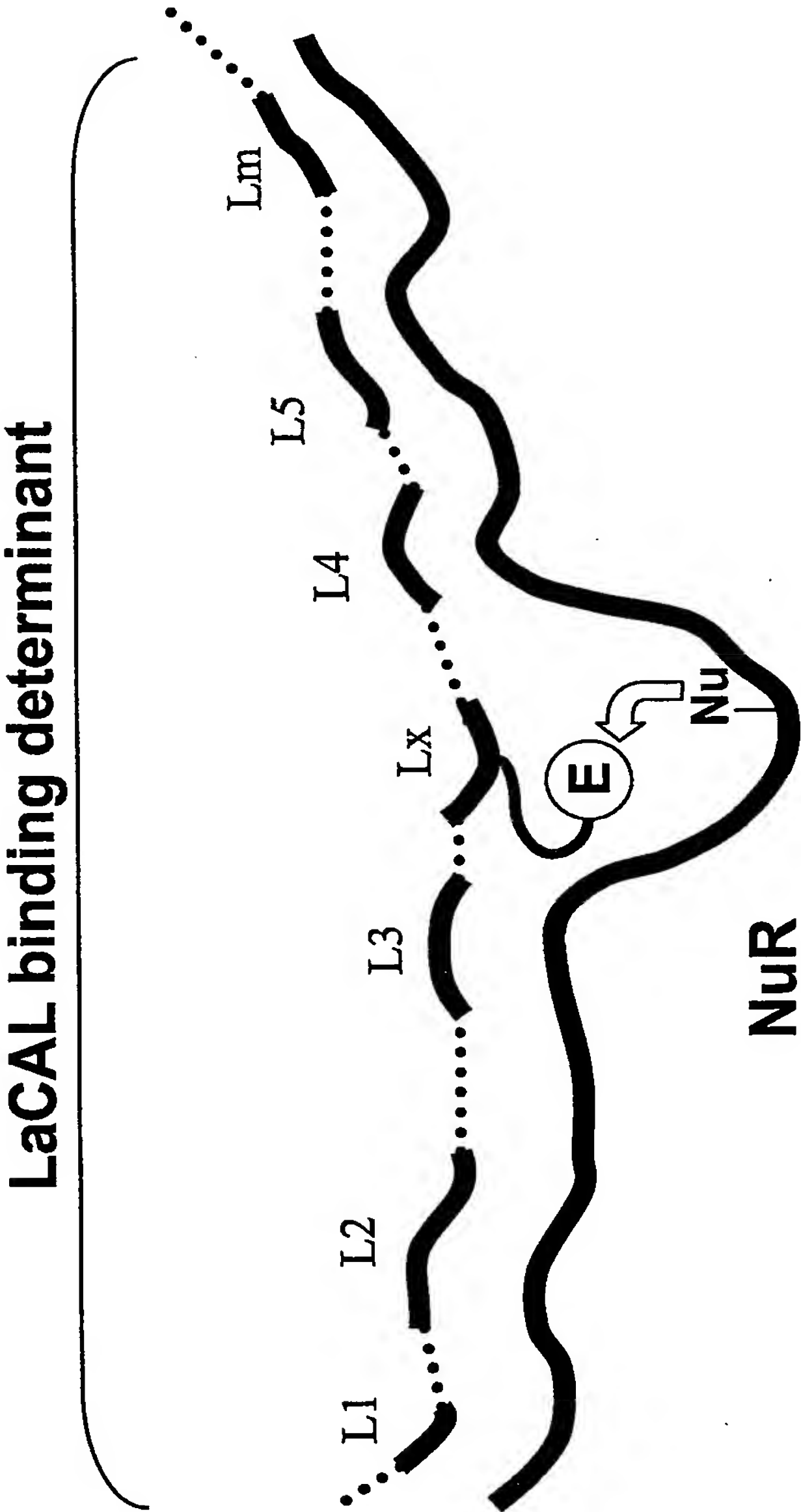


Fig 3  
*Catalysis and covalent binding energies of proteins*

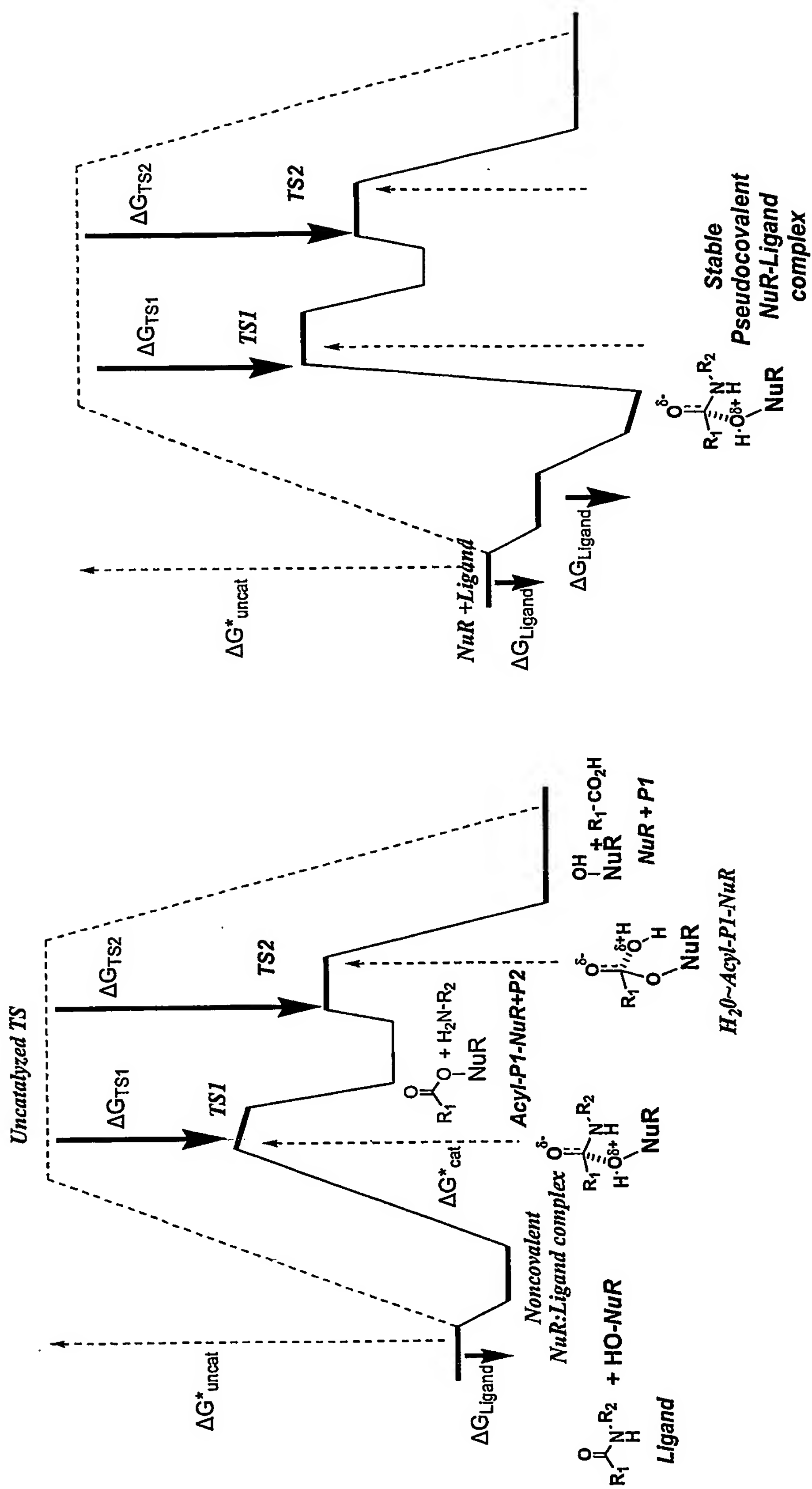
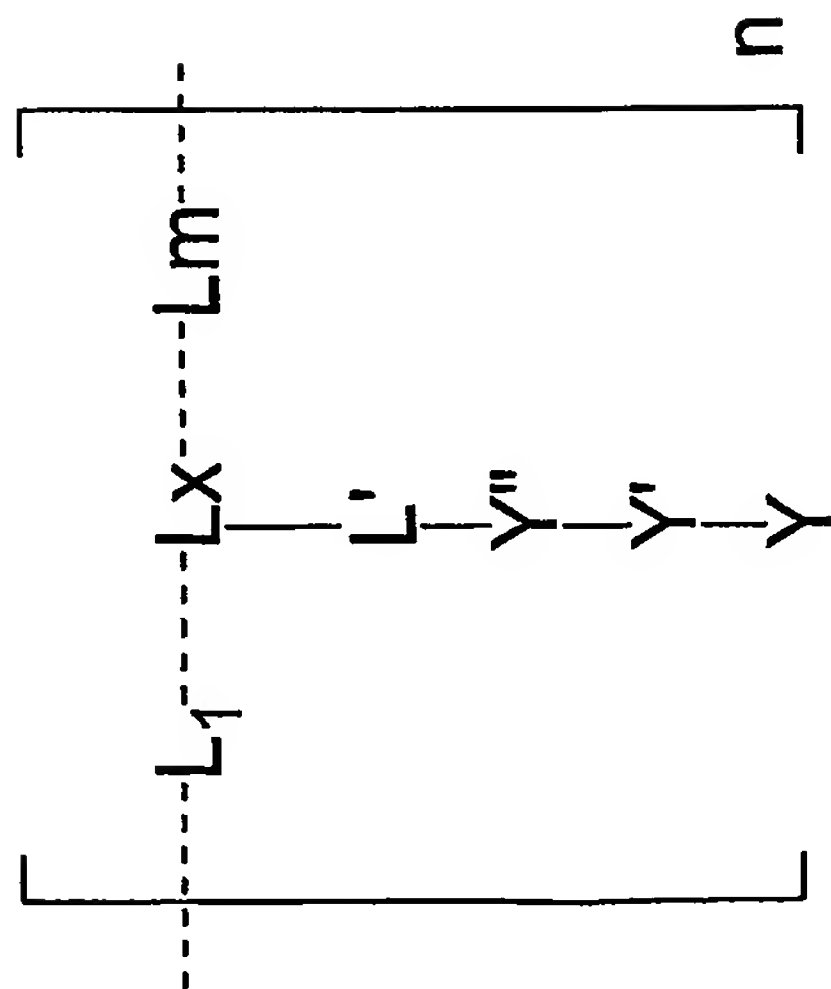
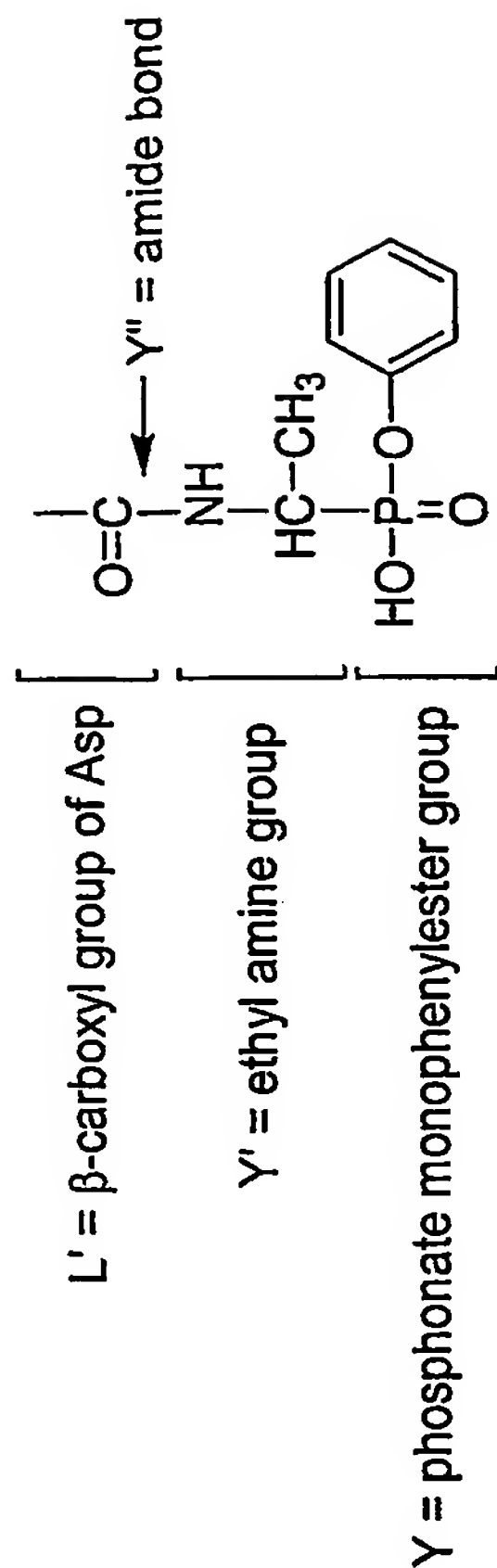


Fig 4

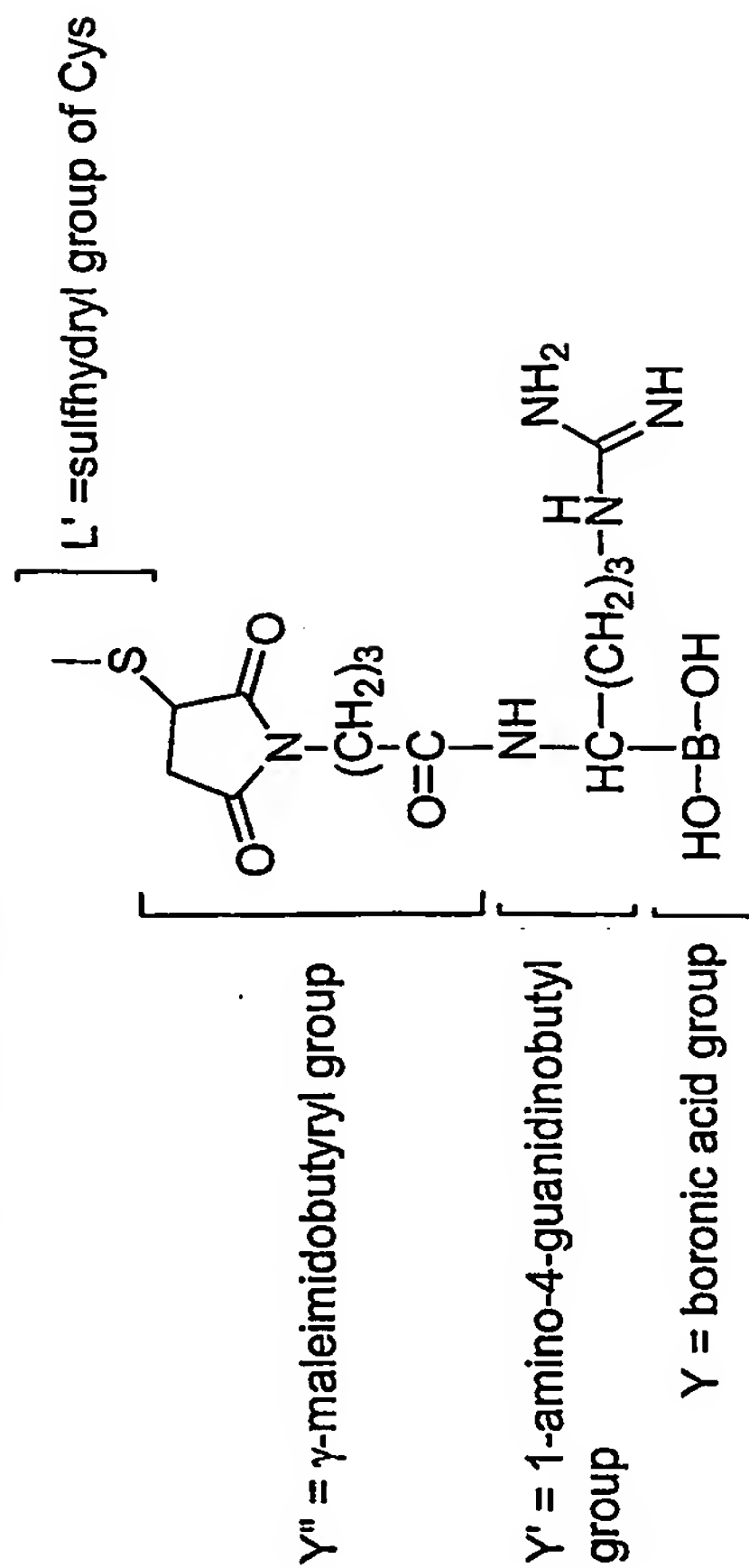
General structure of LaCAL



• L'-Y''-Y'-Y, Example 1



• L'-Y''-Y'-Y, Example 3



• L'-Y''-Y'-Y, Example 2

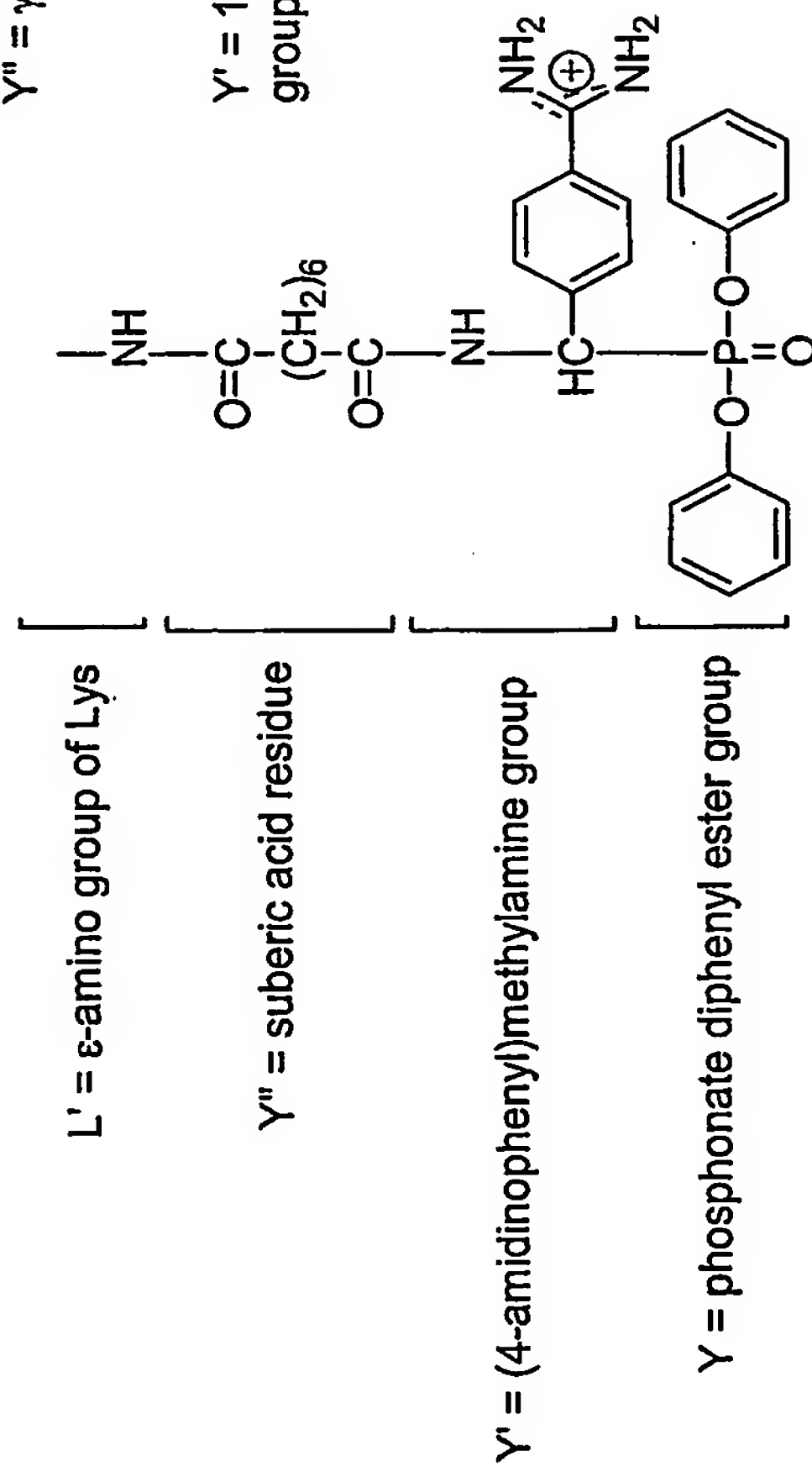
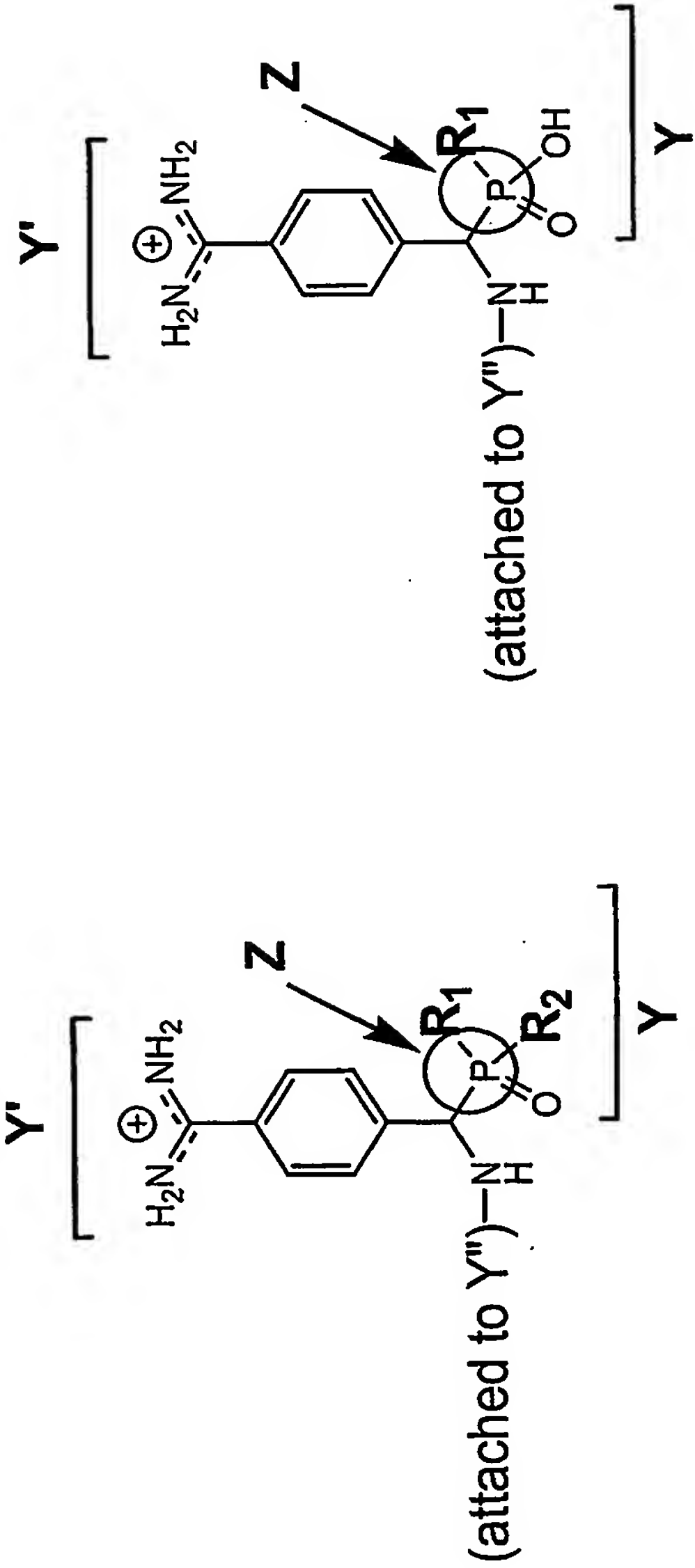


Fig 5A



LaCAL Z-R pair: Example 2

LaCAL Z-R pair: Example 1

Fig 5B

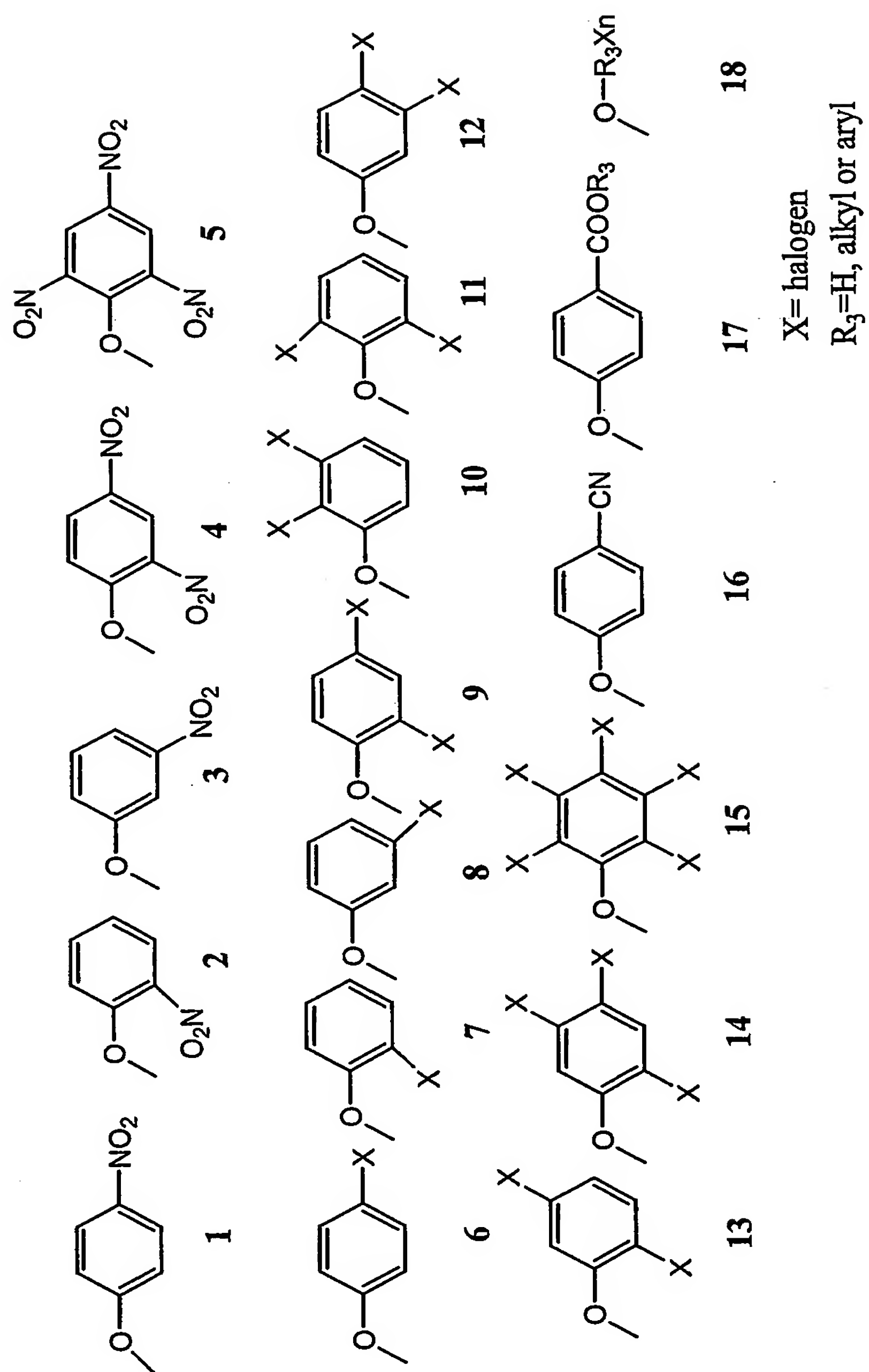
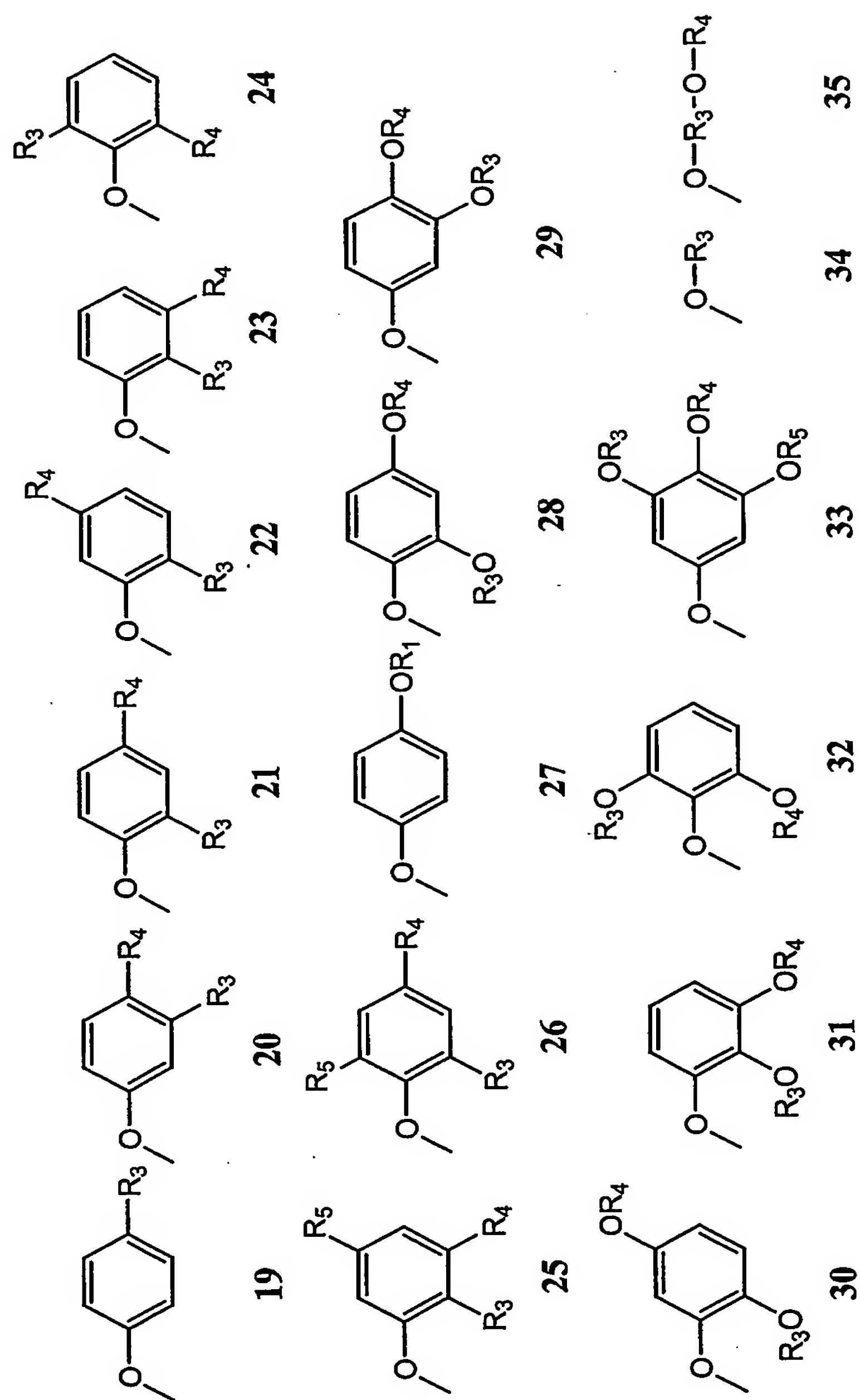


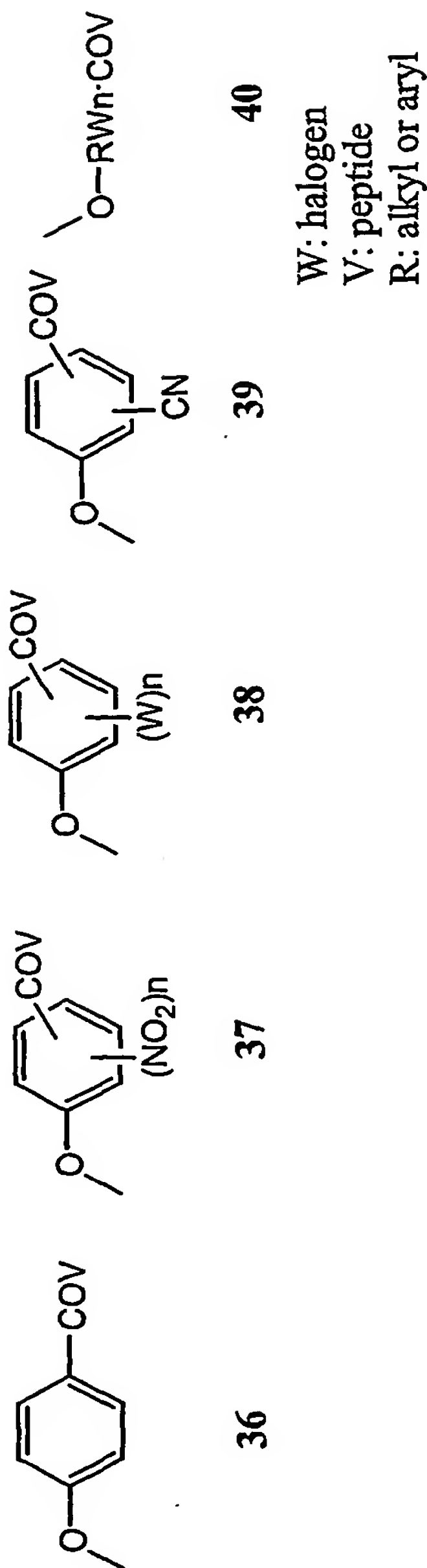
Fig 5C



$\text{R}_n = \text{H, alkyl or aryl}$

Fig 5D

**A. Electron withdrawing substituents with peptide extension**



**B. Electron donating substituents with peptide extension**

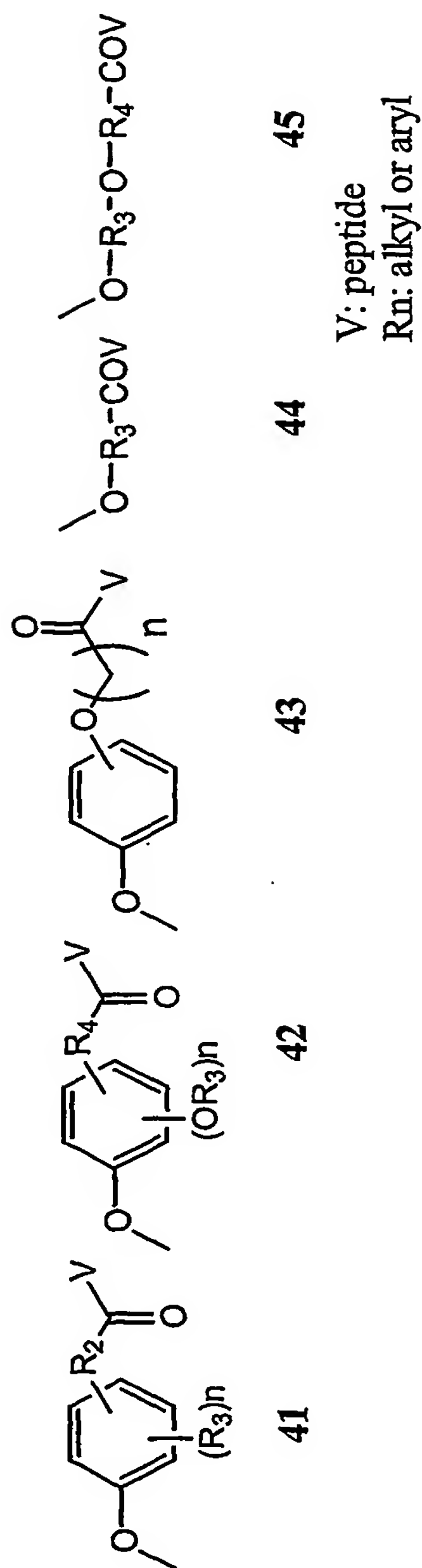




Fig 6

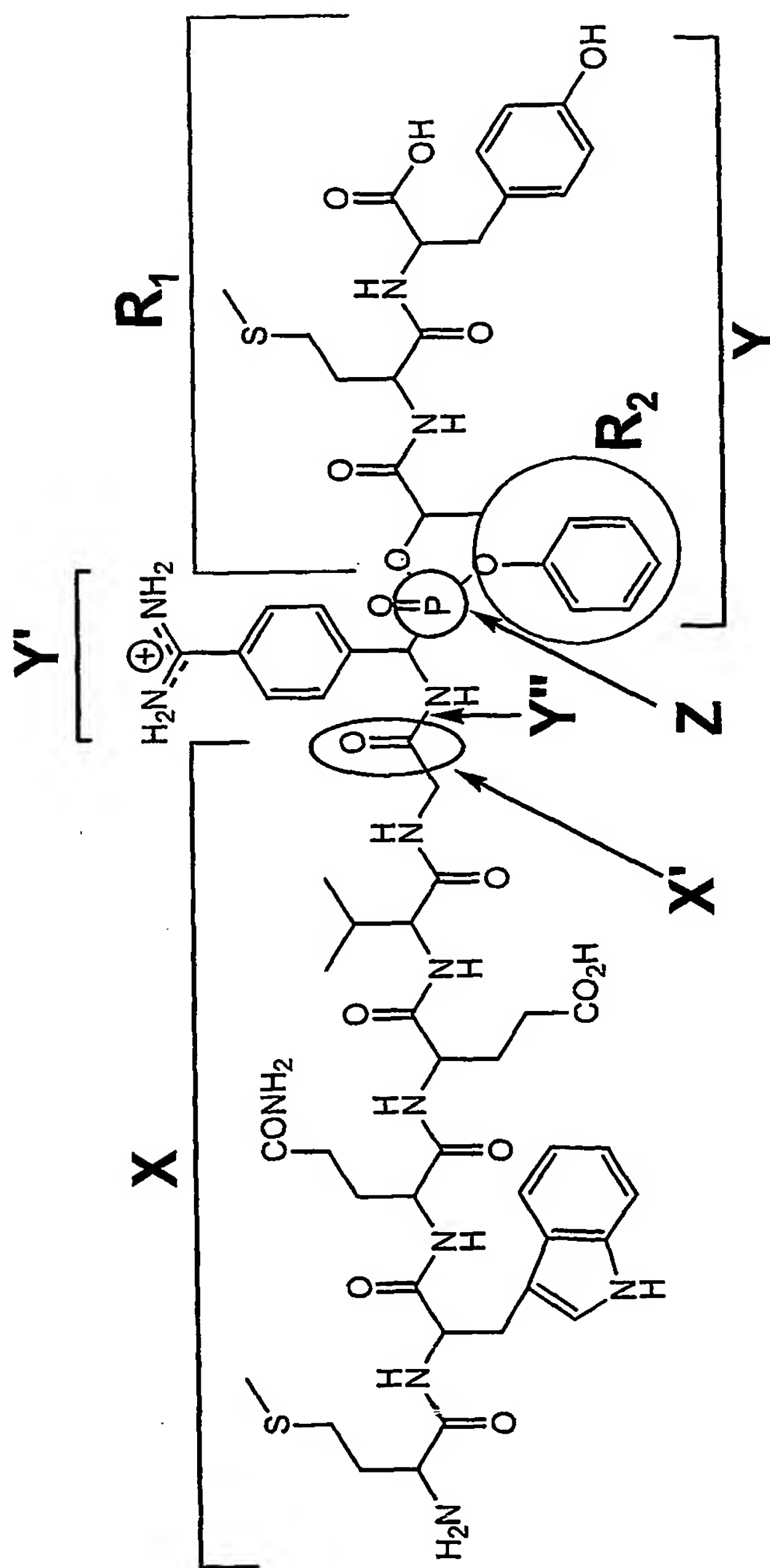


Fig 7

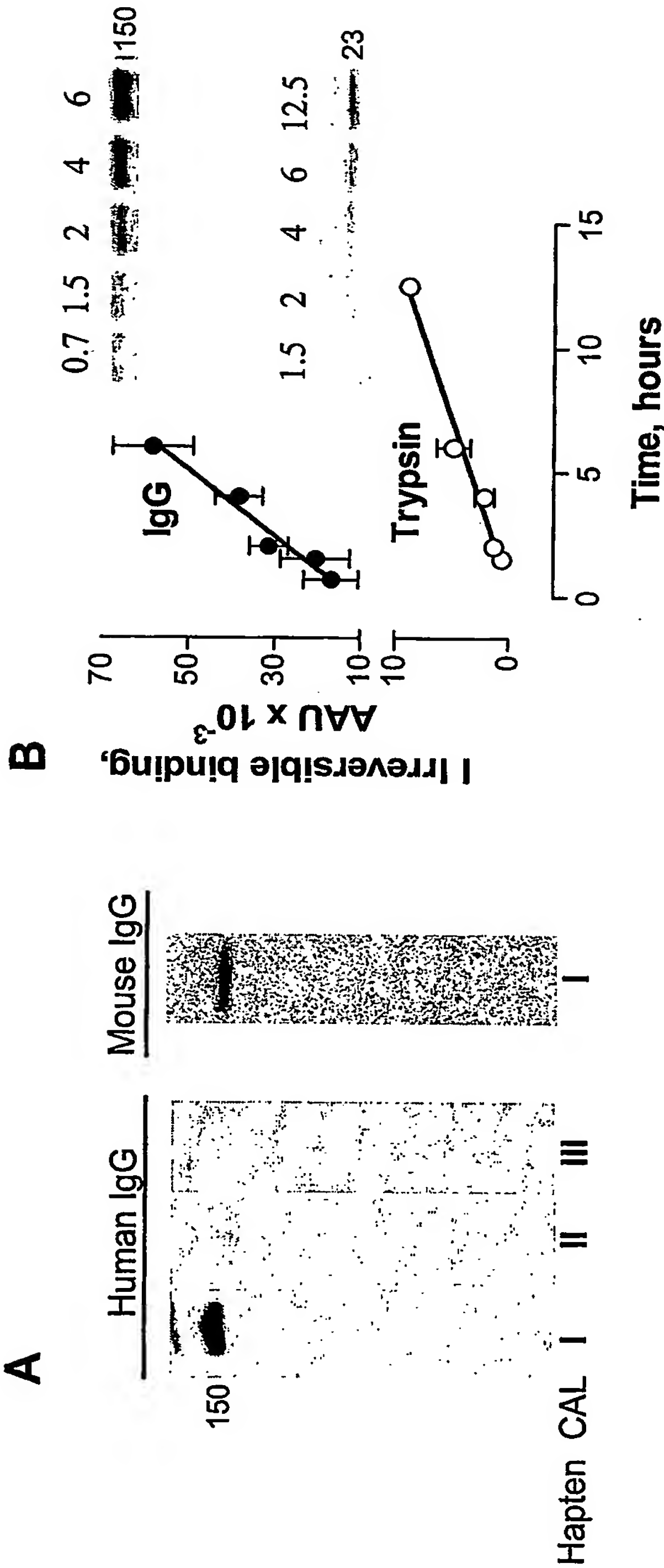


Fig 8

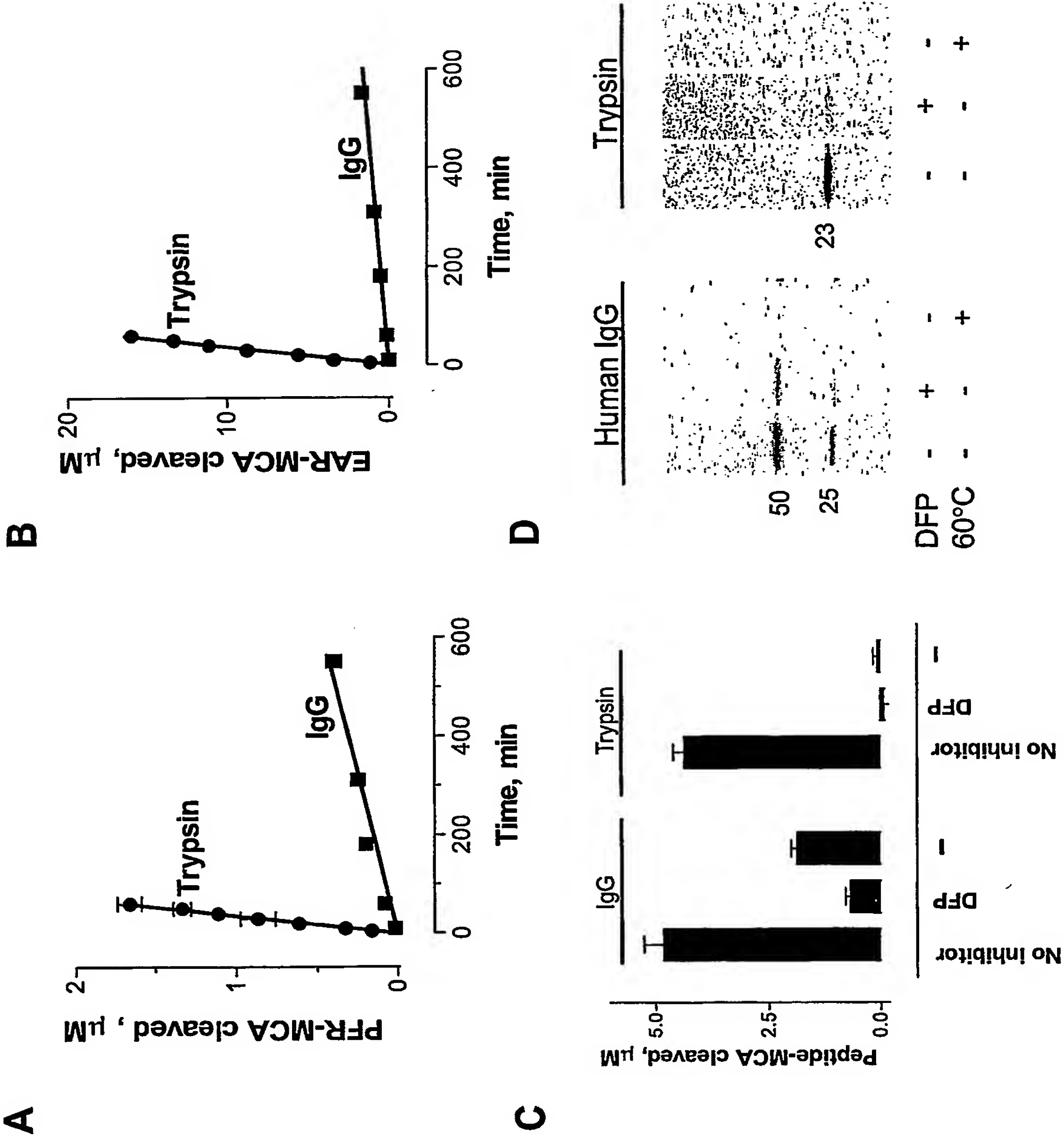


Fig 9

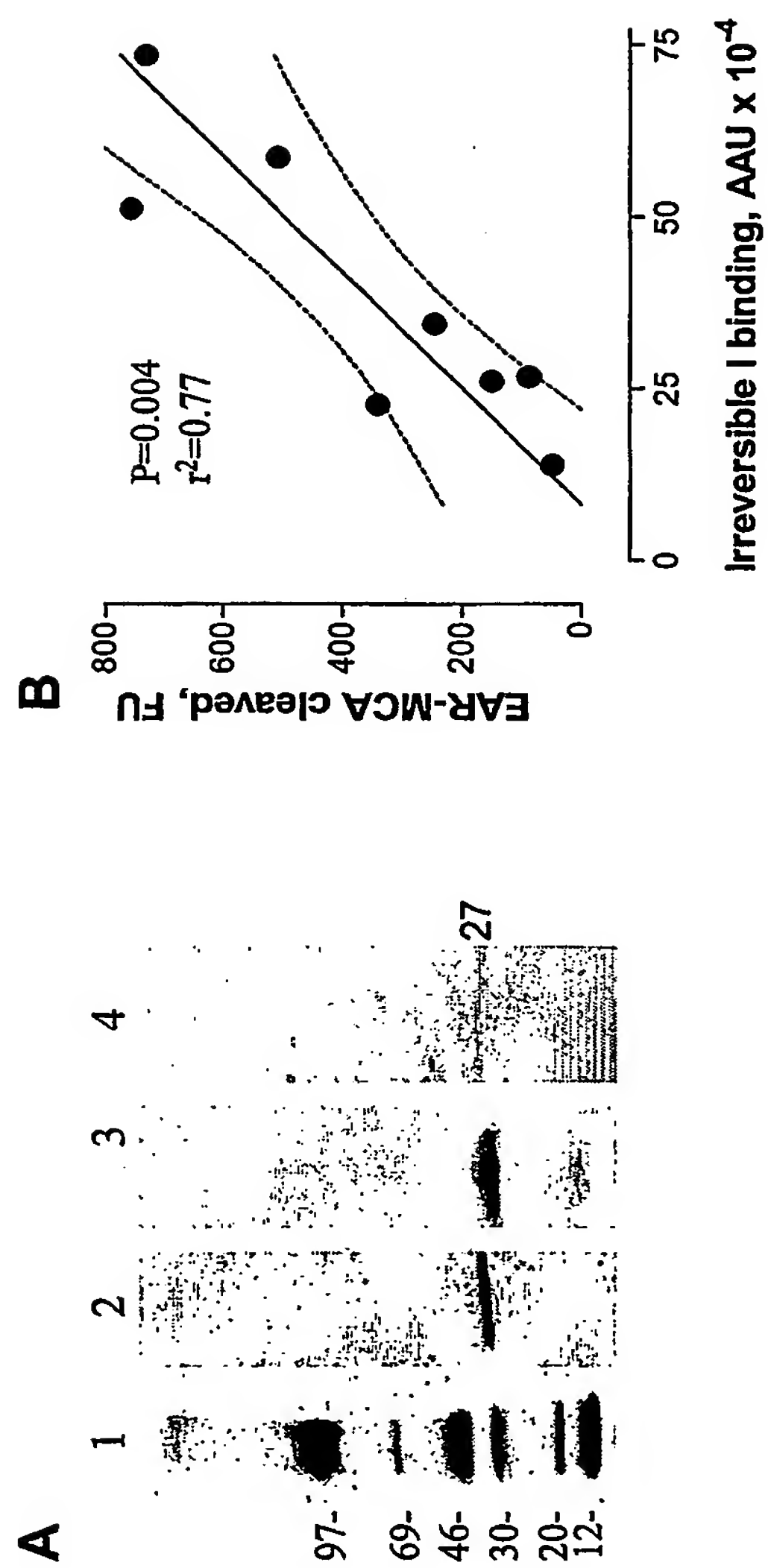


Fig 10

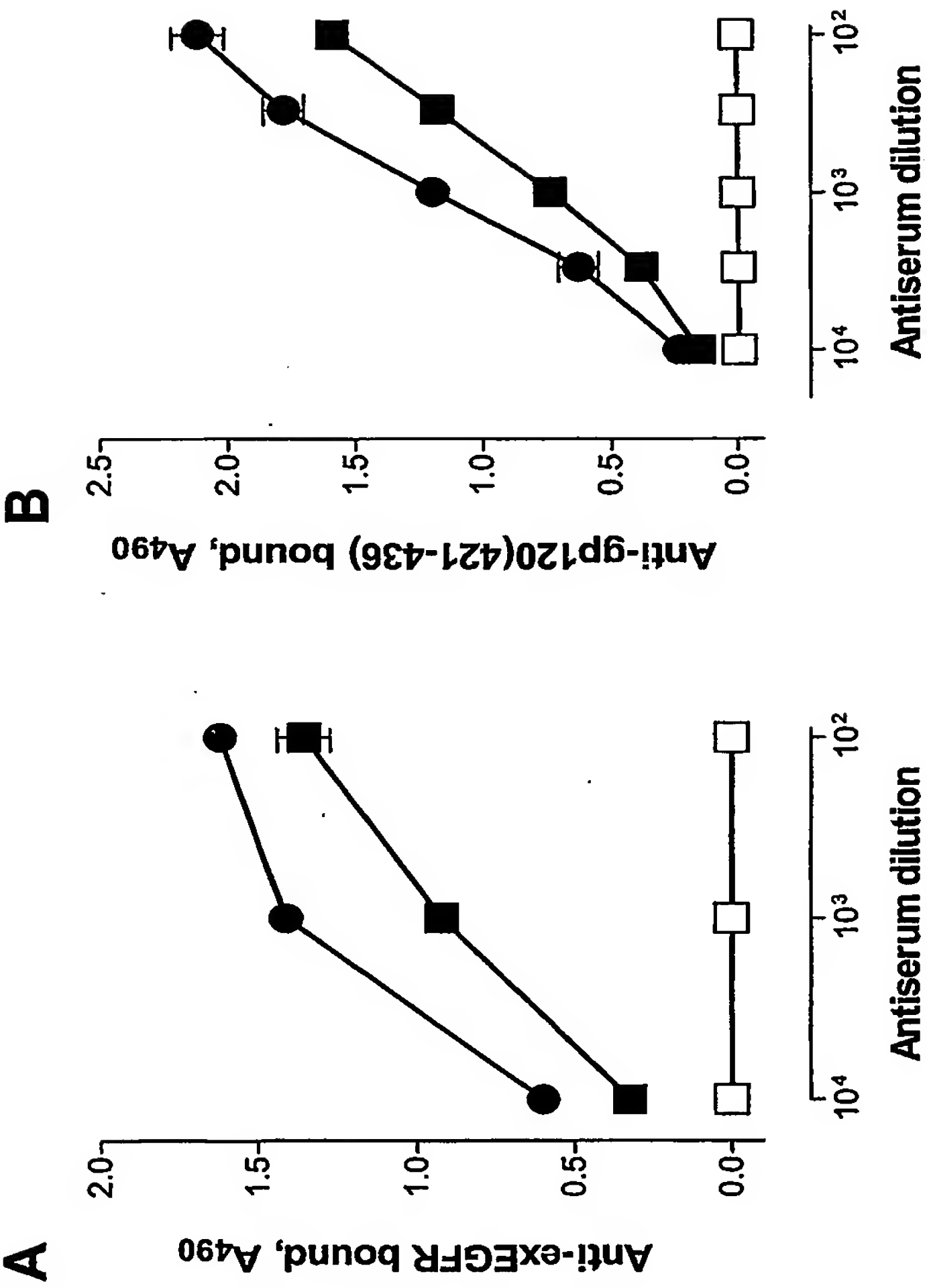


Fig 11

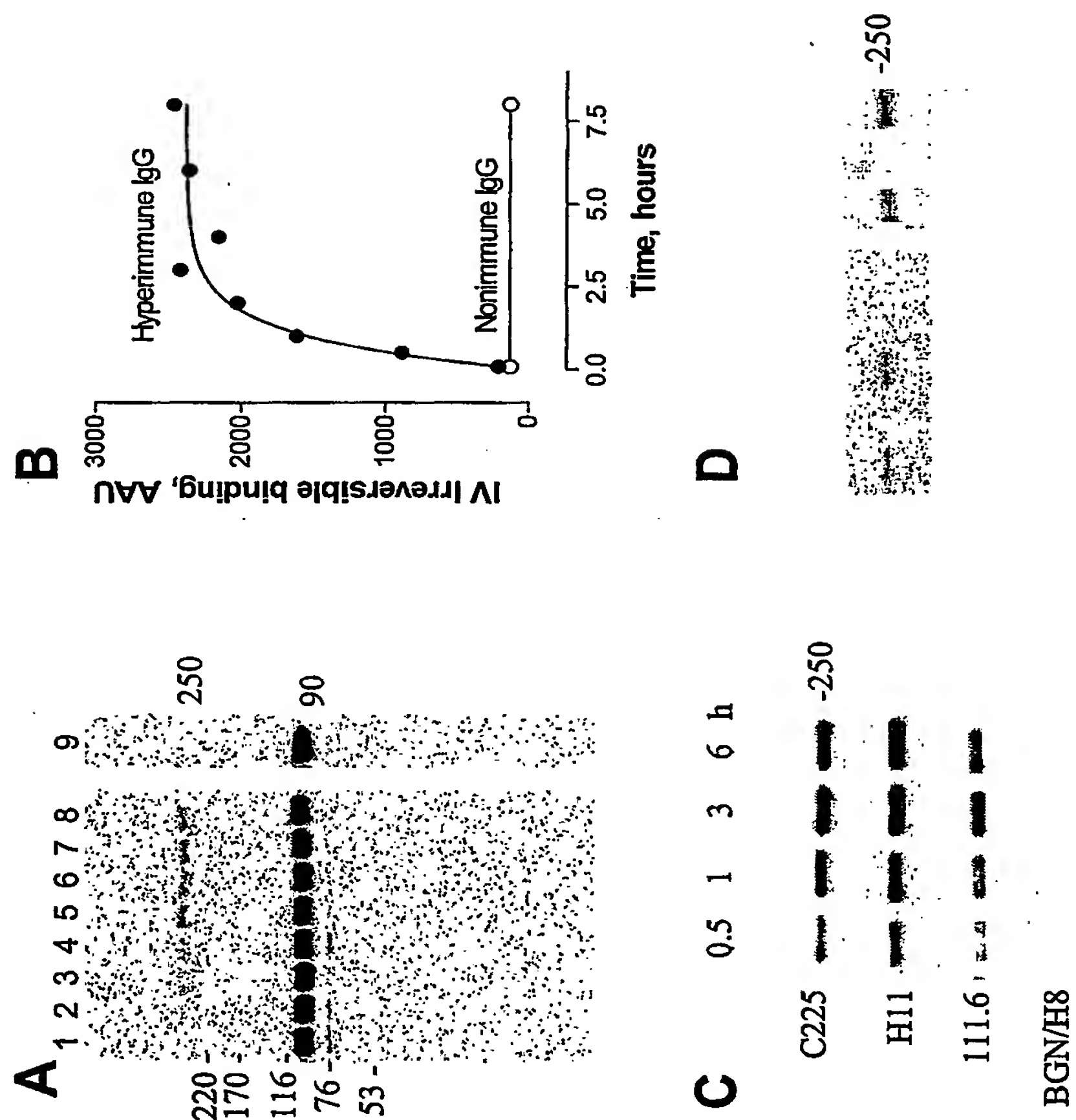


Fig 12

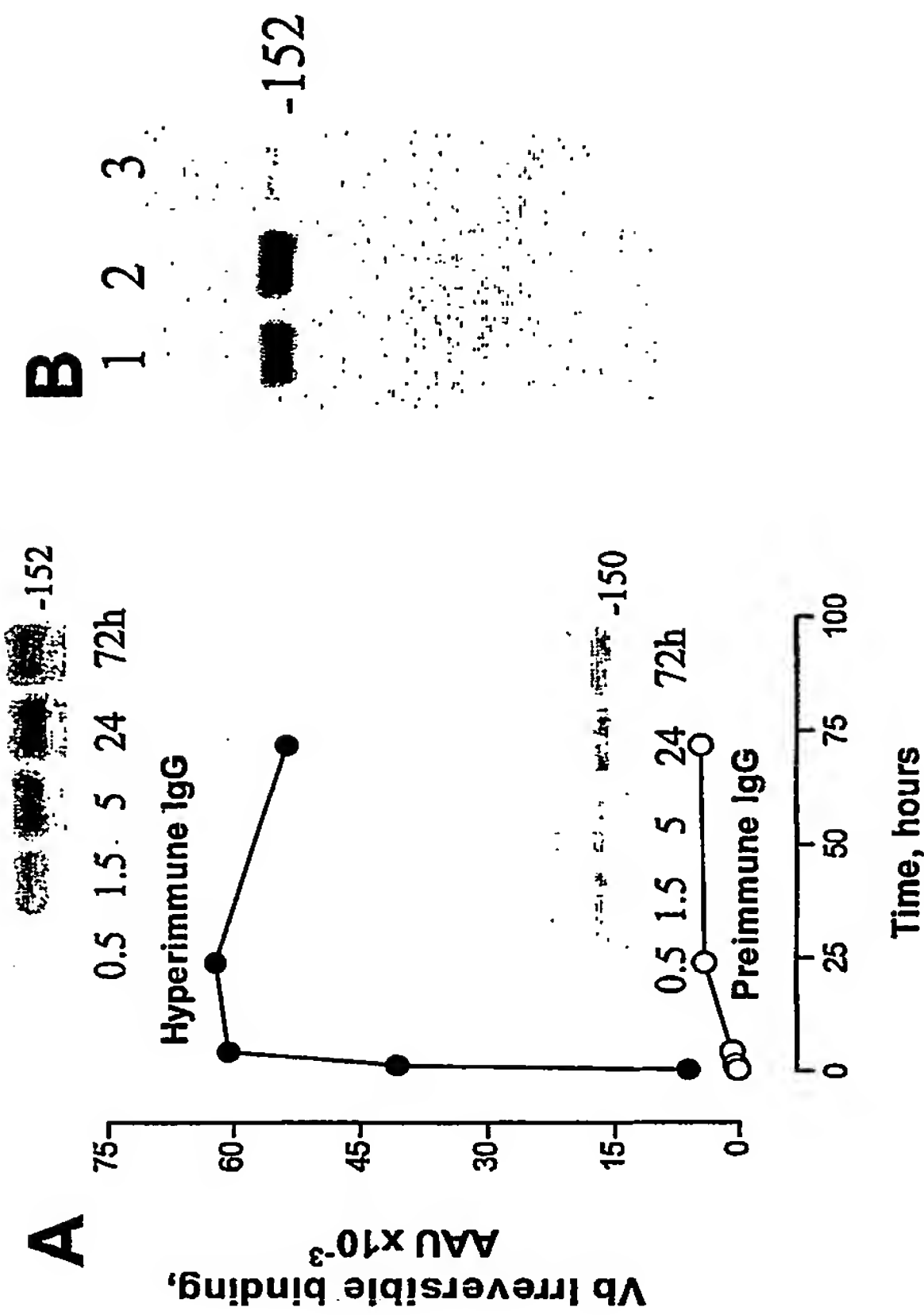
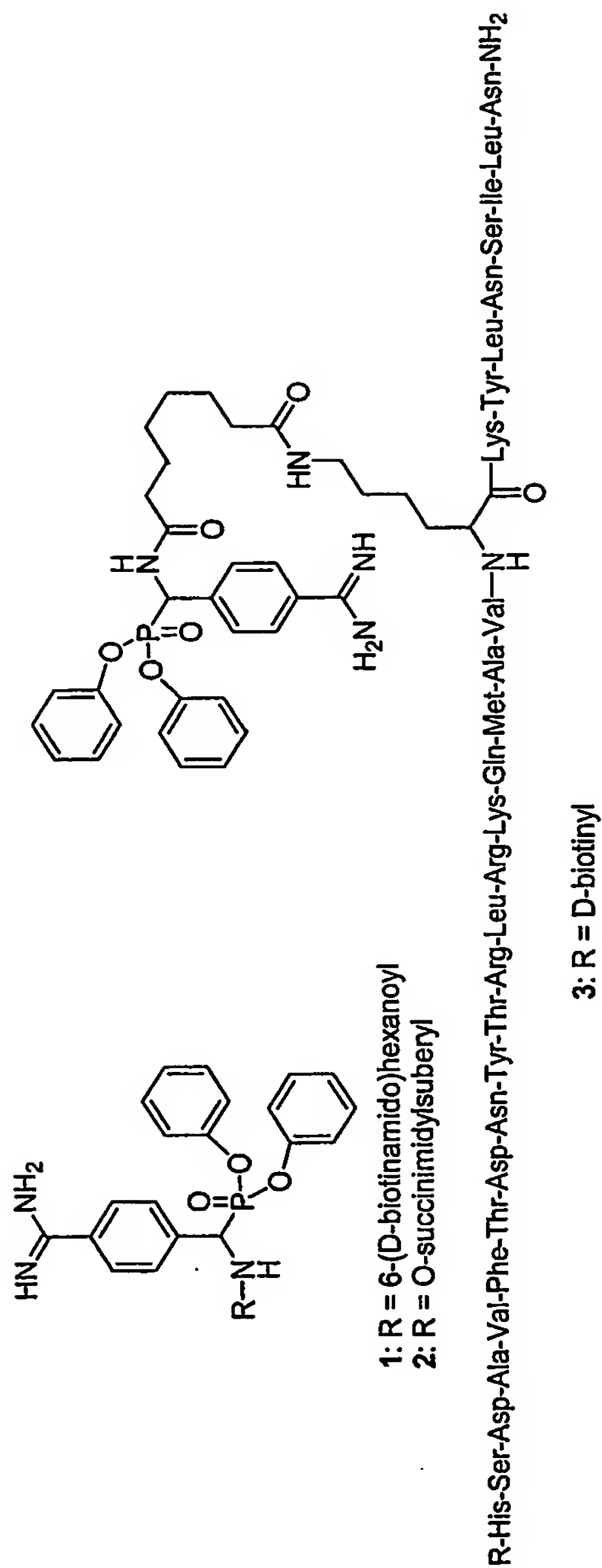


Fig 13

A



B

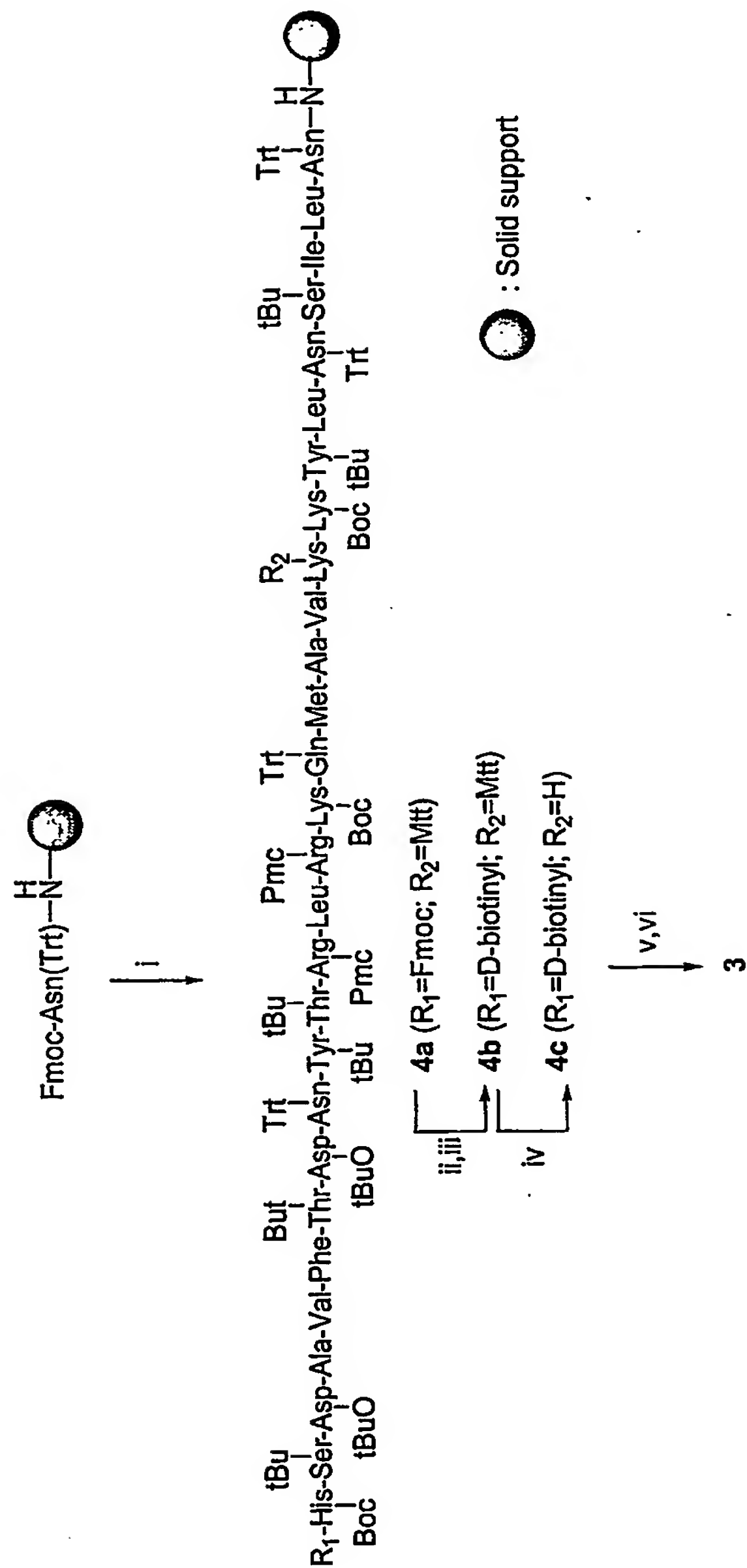




Fig 14

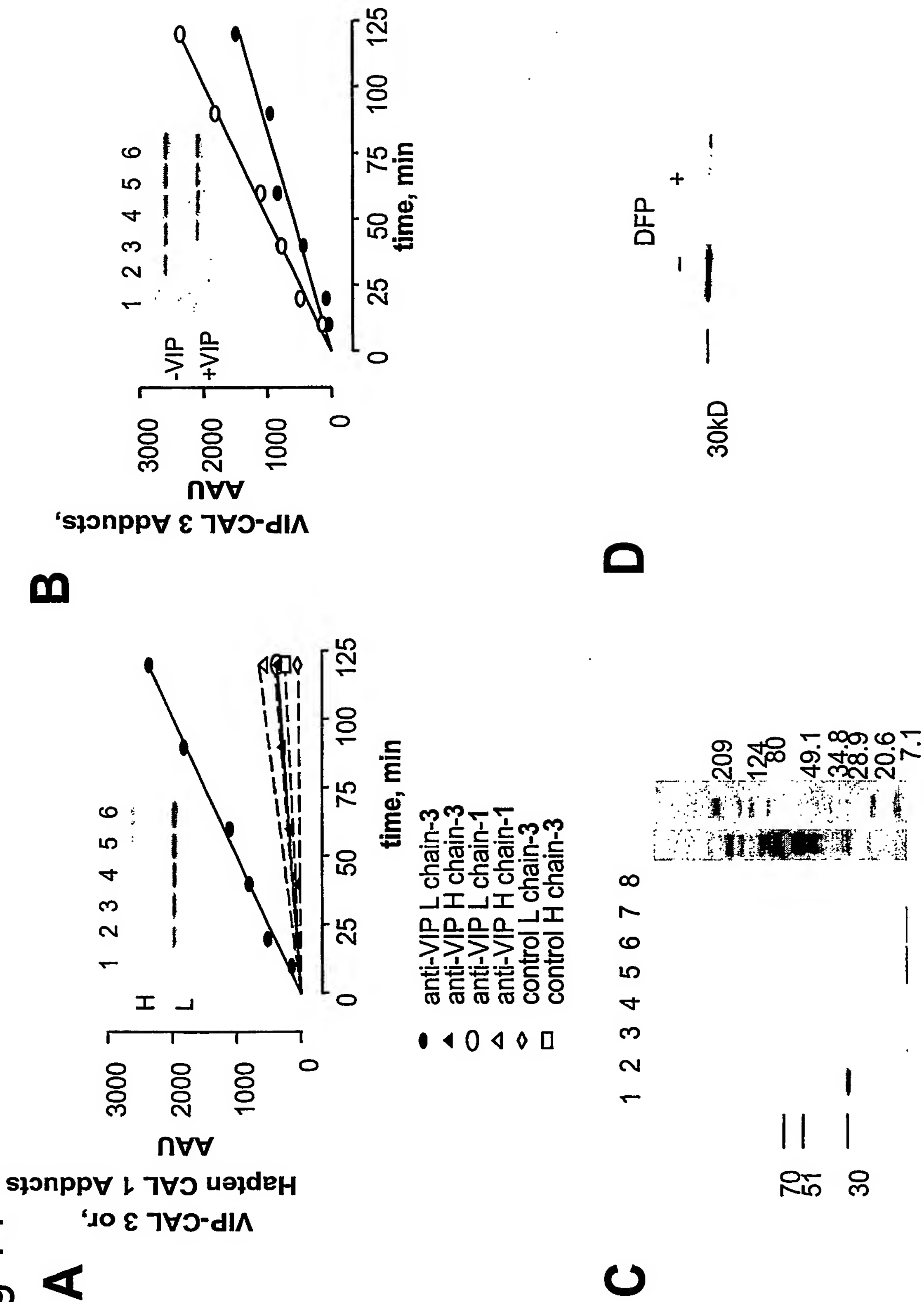
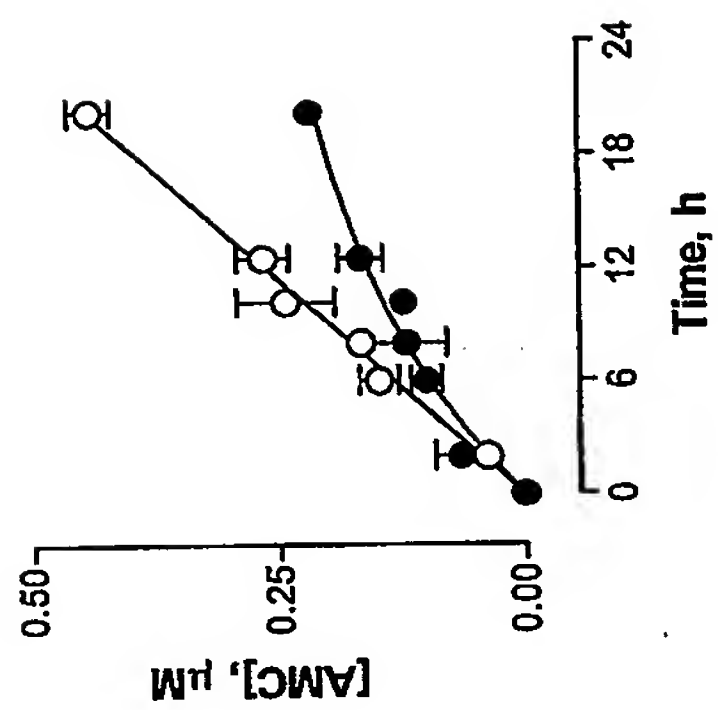
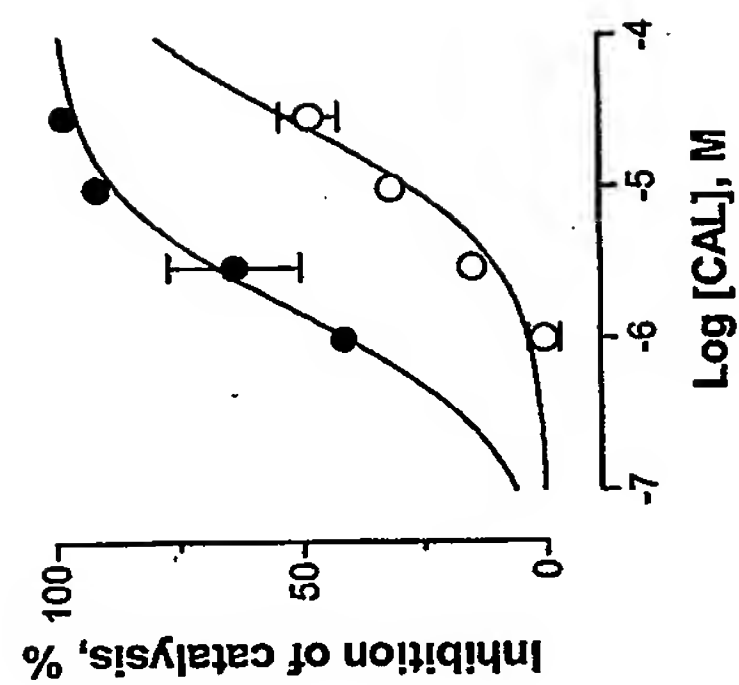


Fig 15

A



B



C

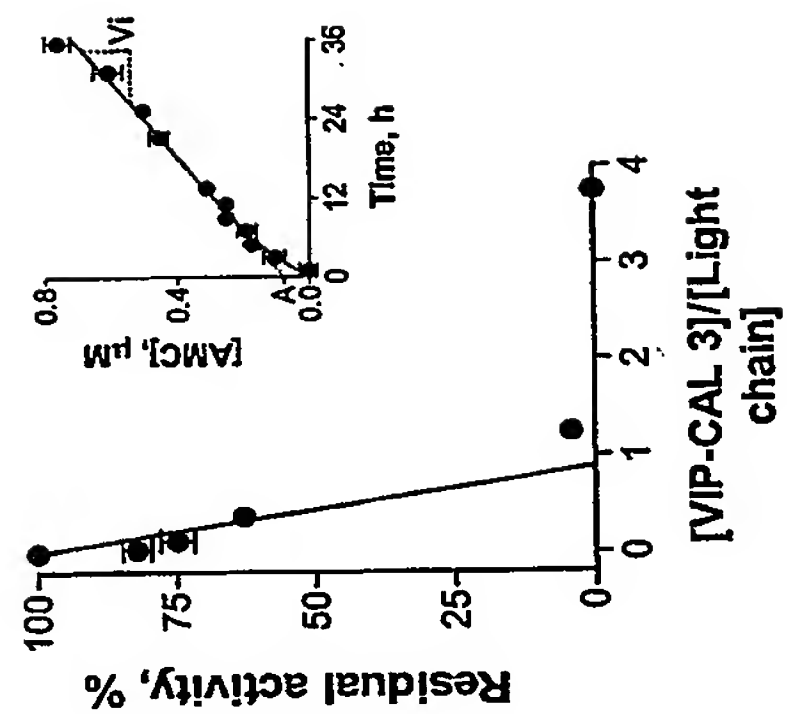
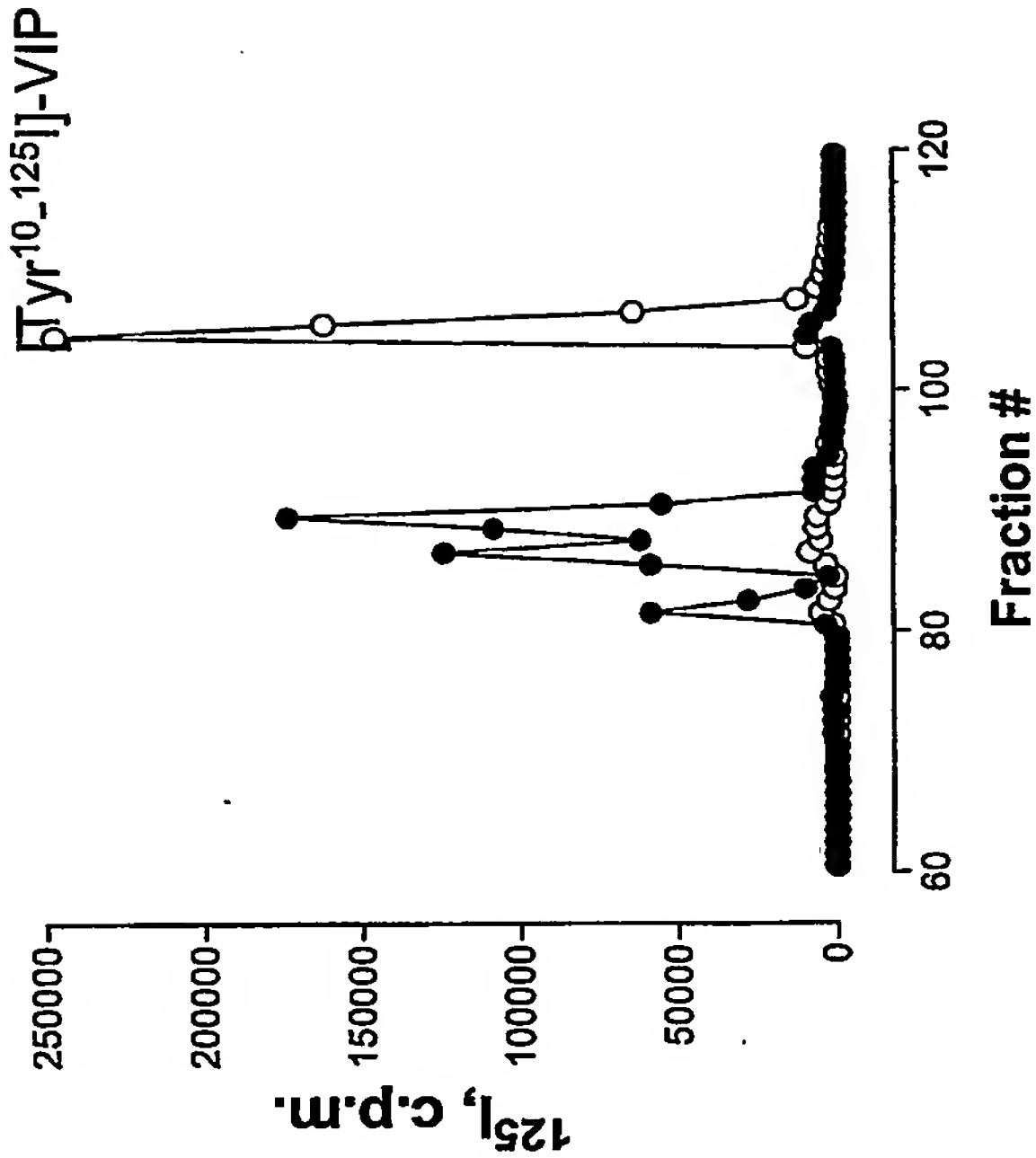


Fig 16

A



B

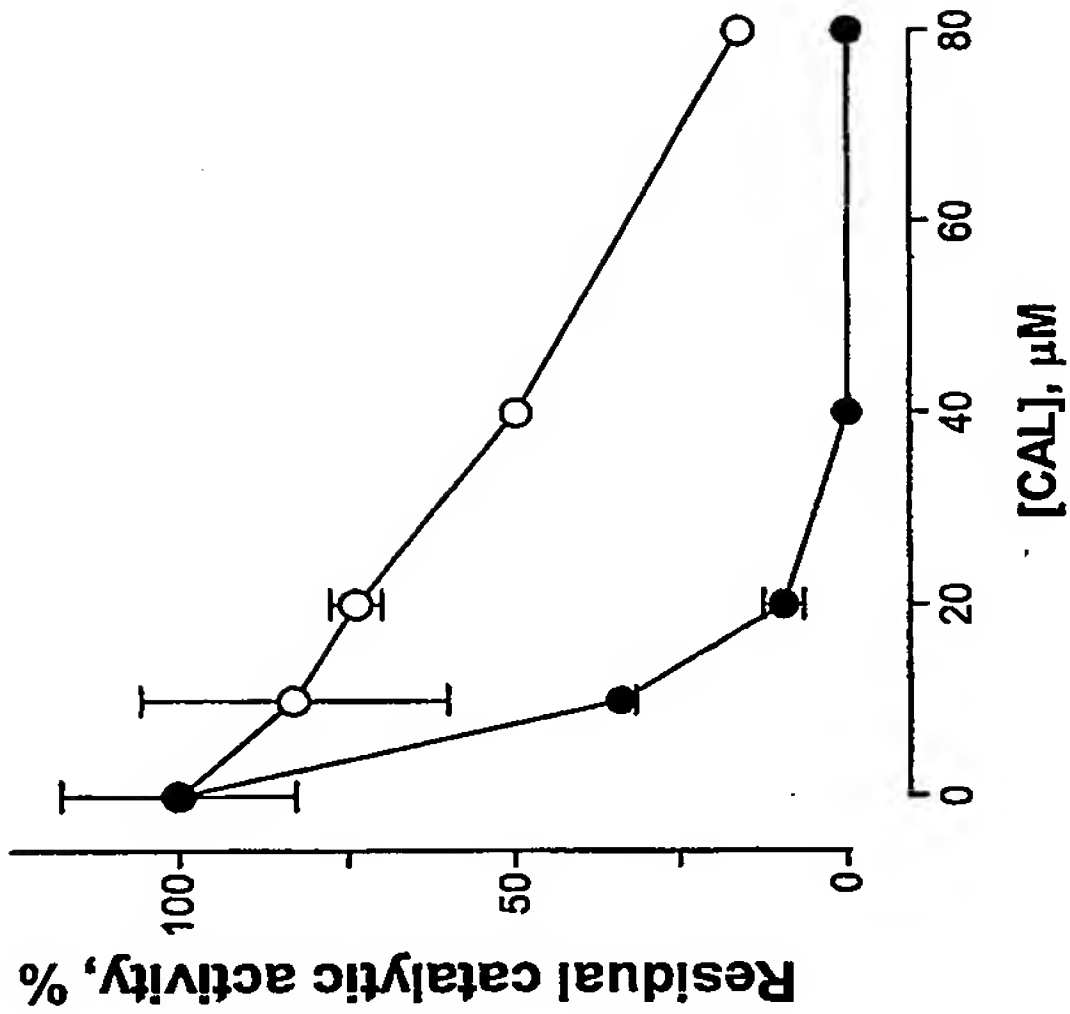
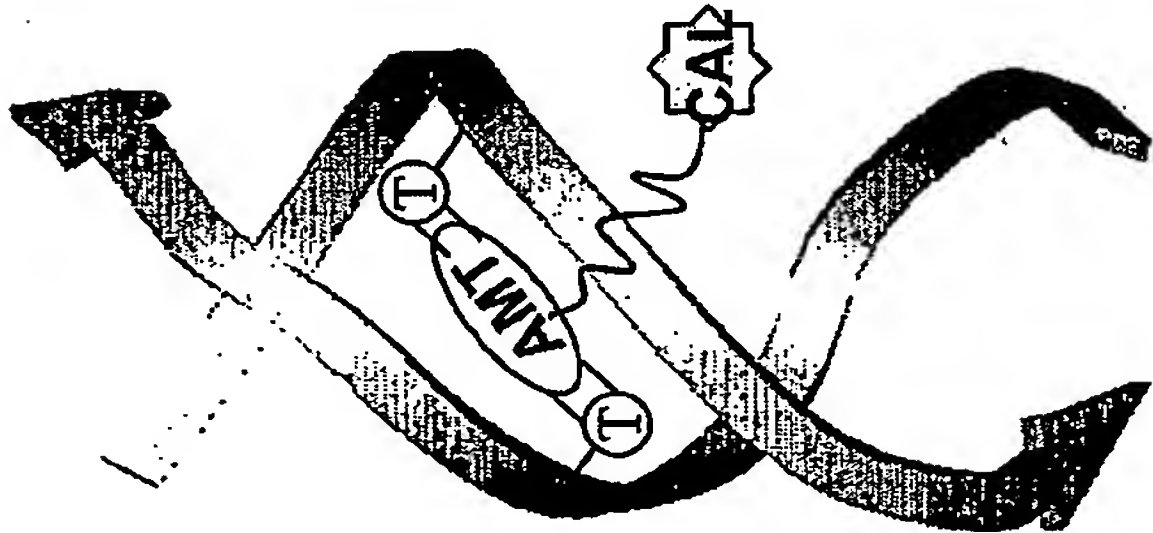
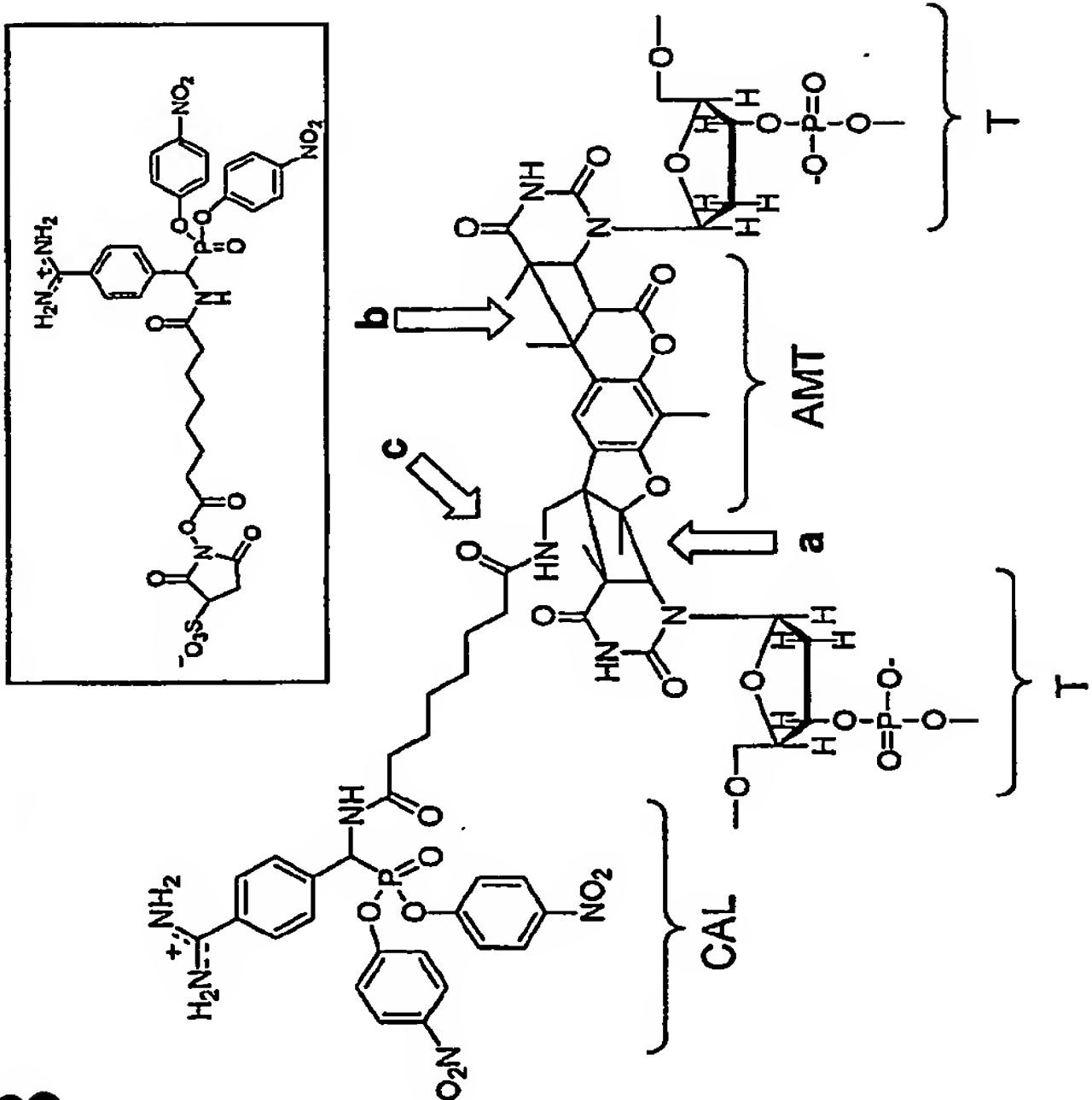


Fig 17

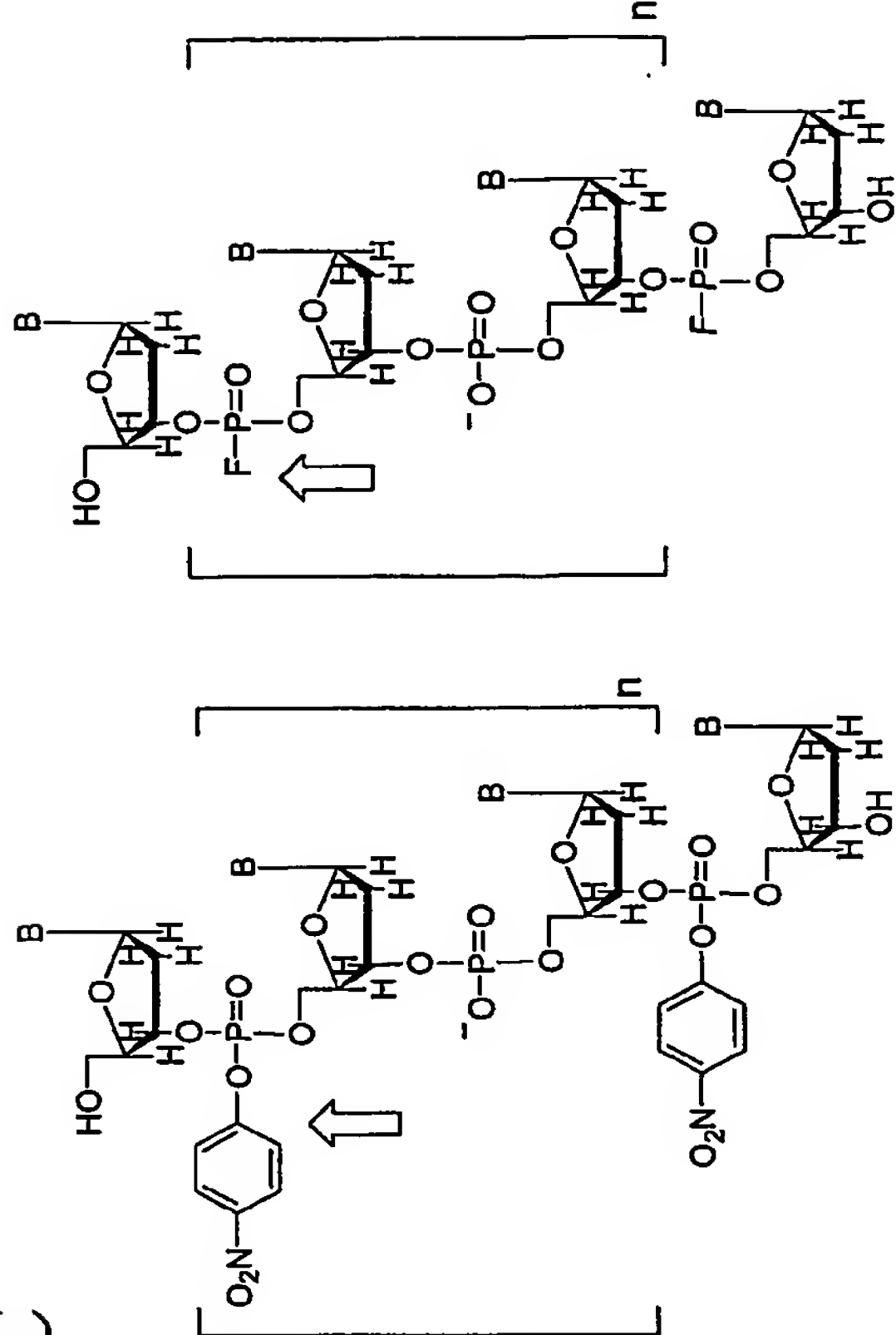
A



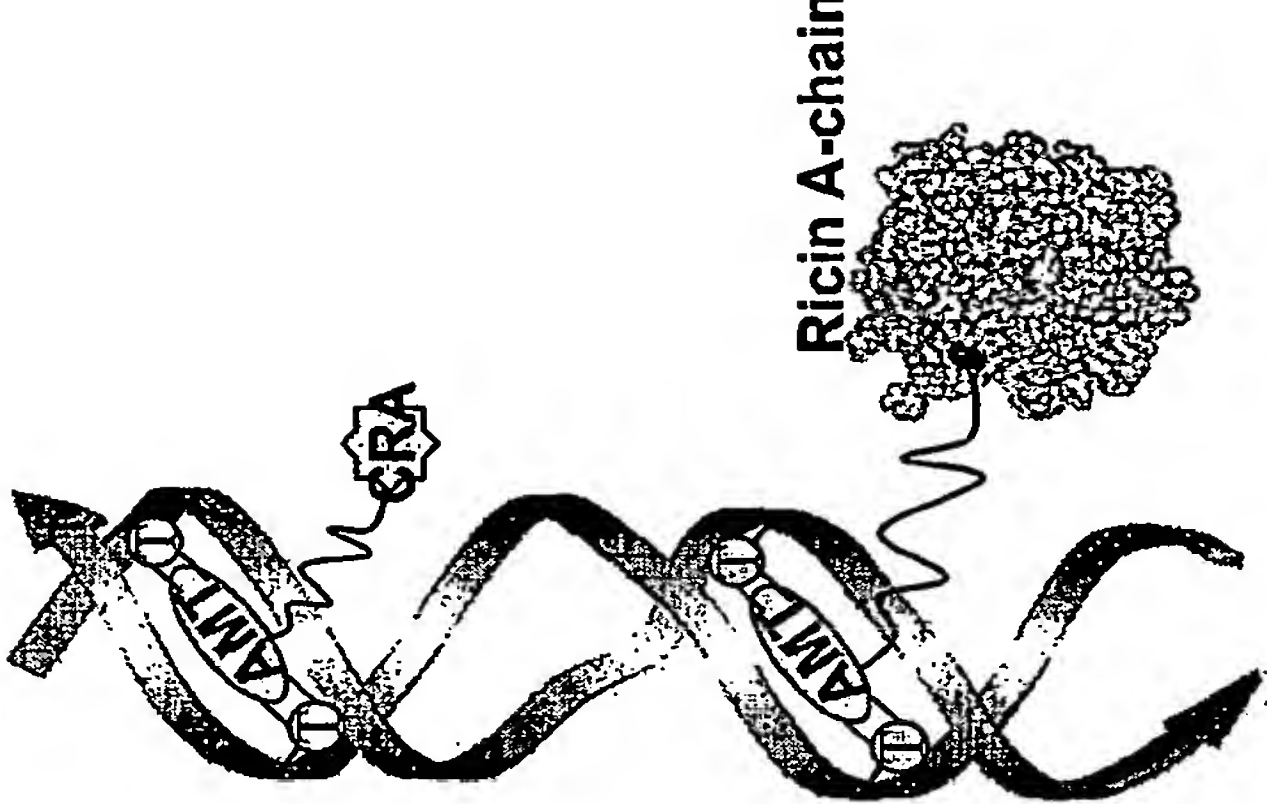
B



C



D



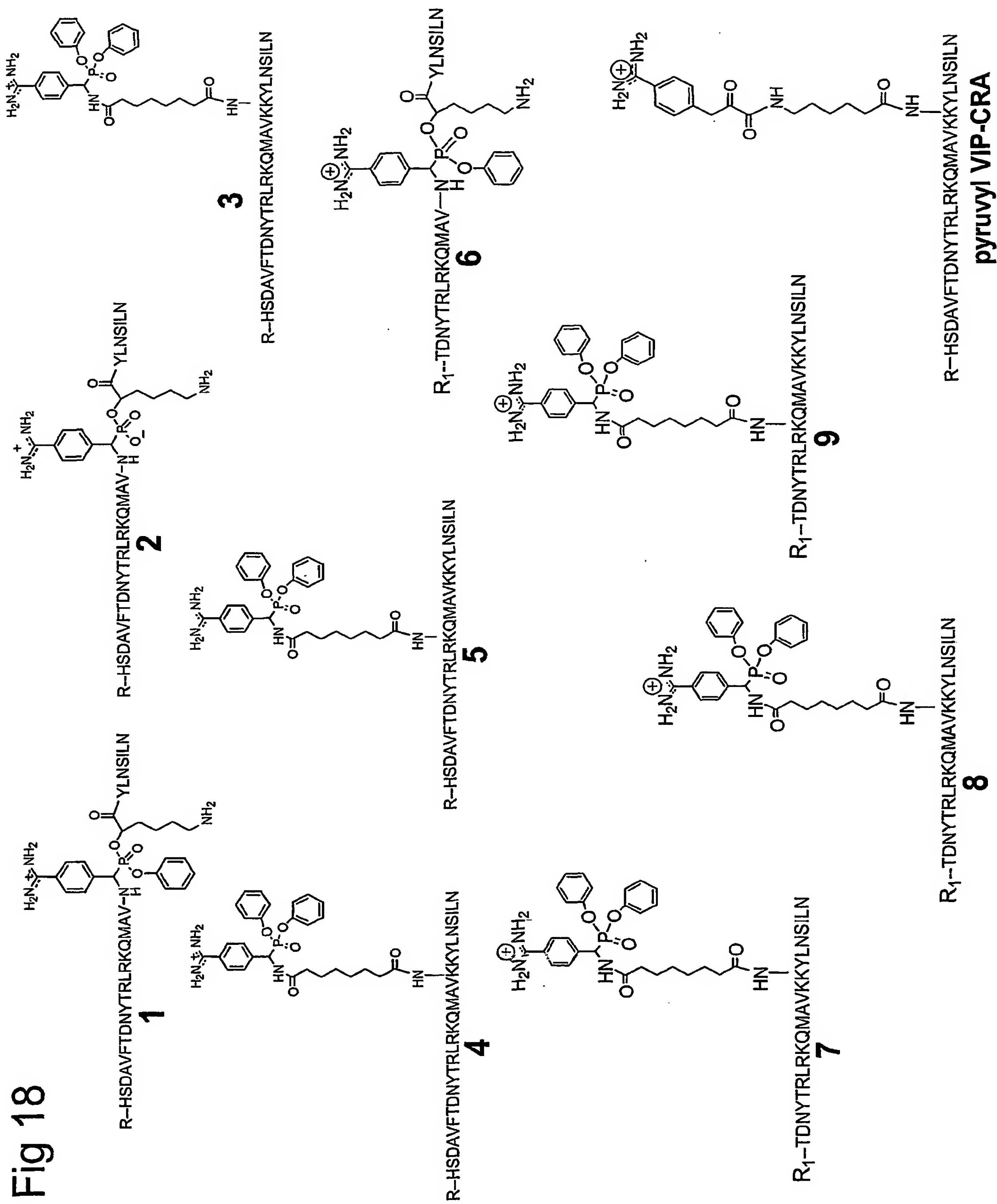


Fig 19

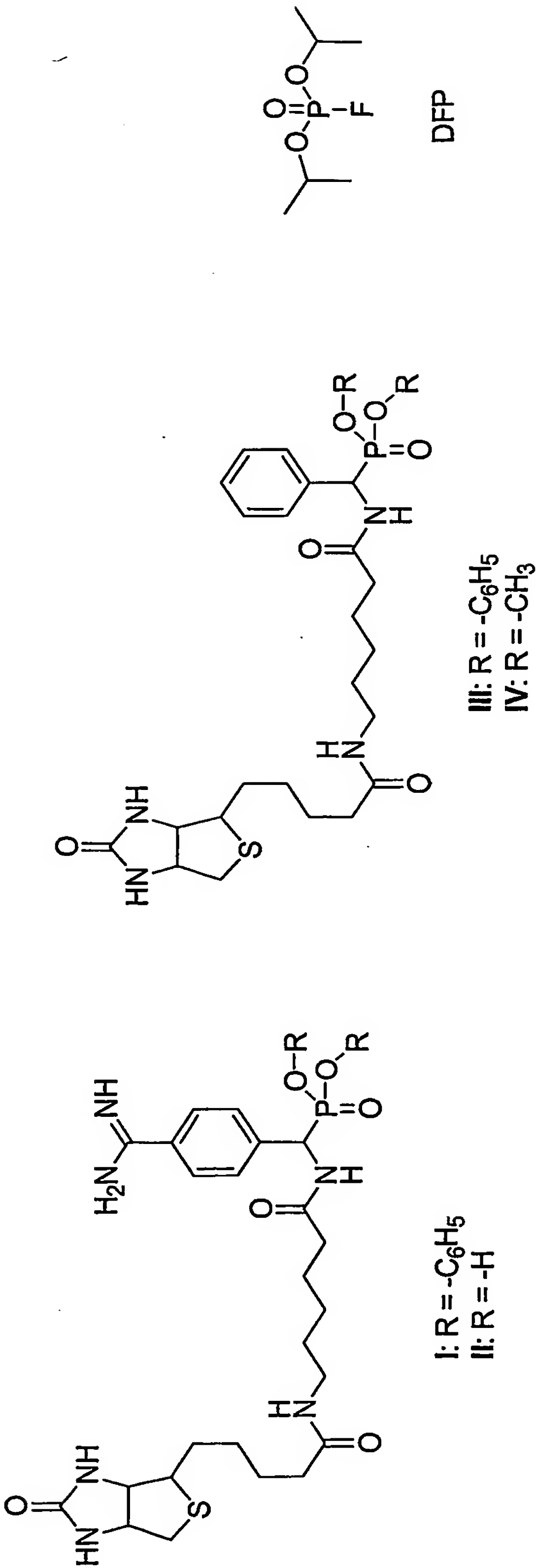


Fig 20

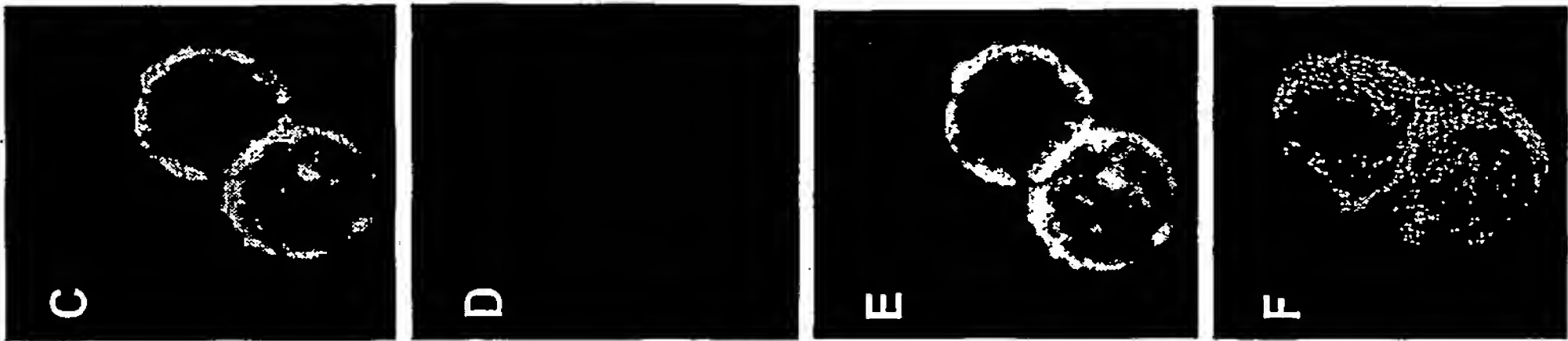
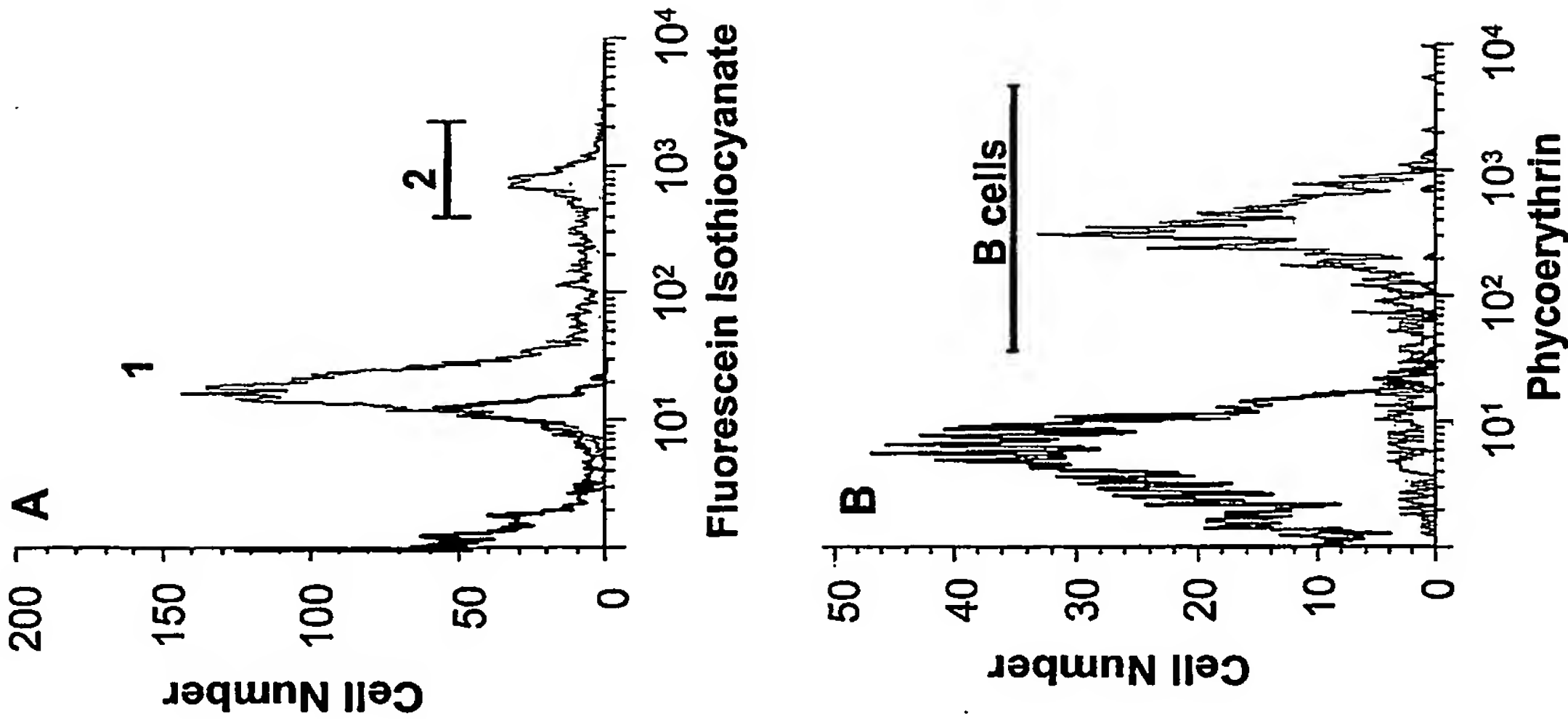


Fig 21

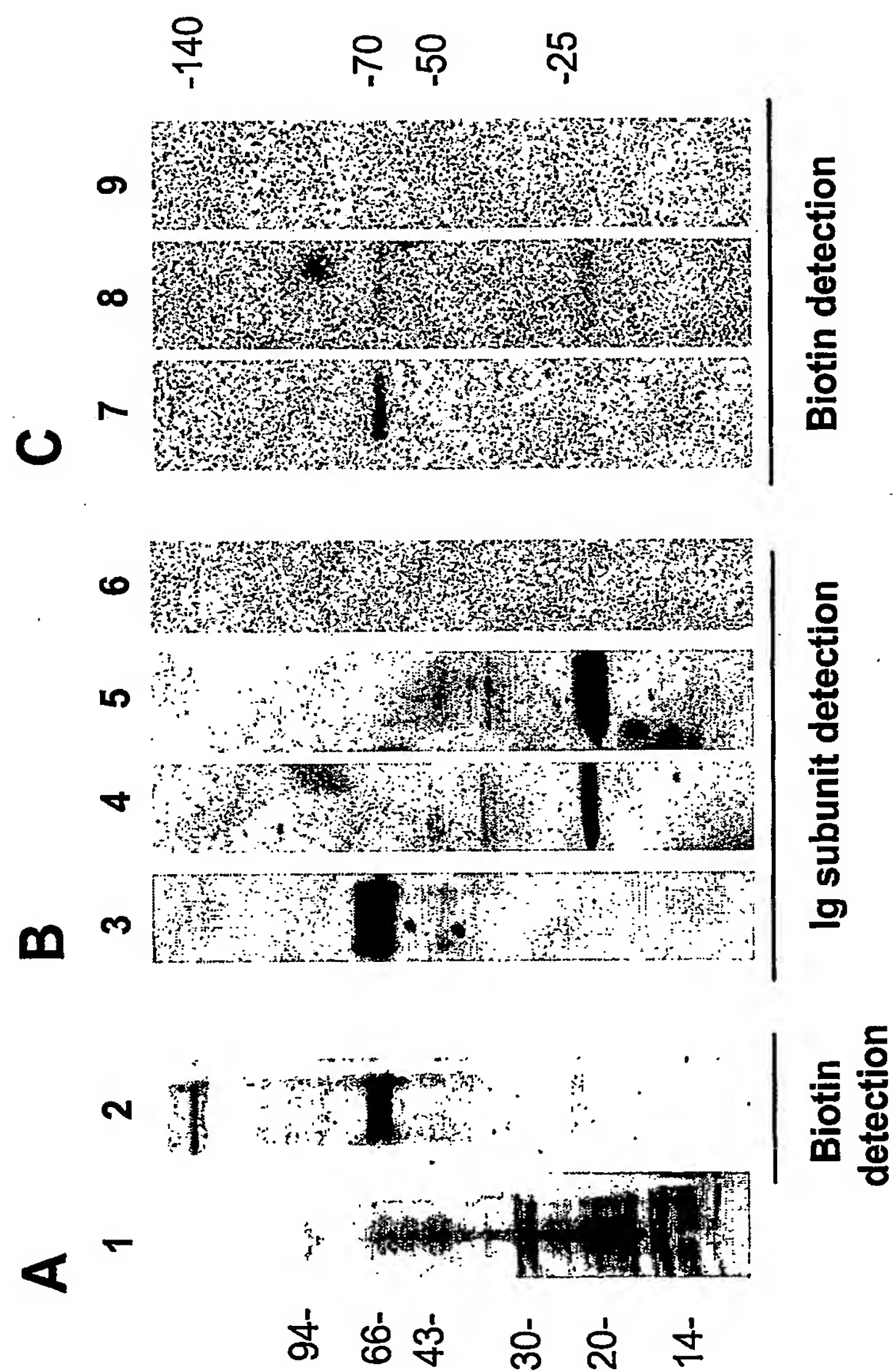




Fig 22

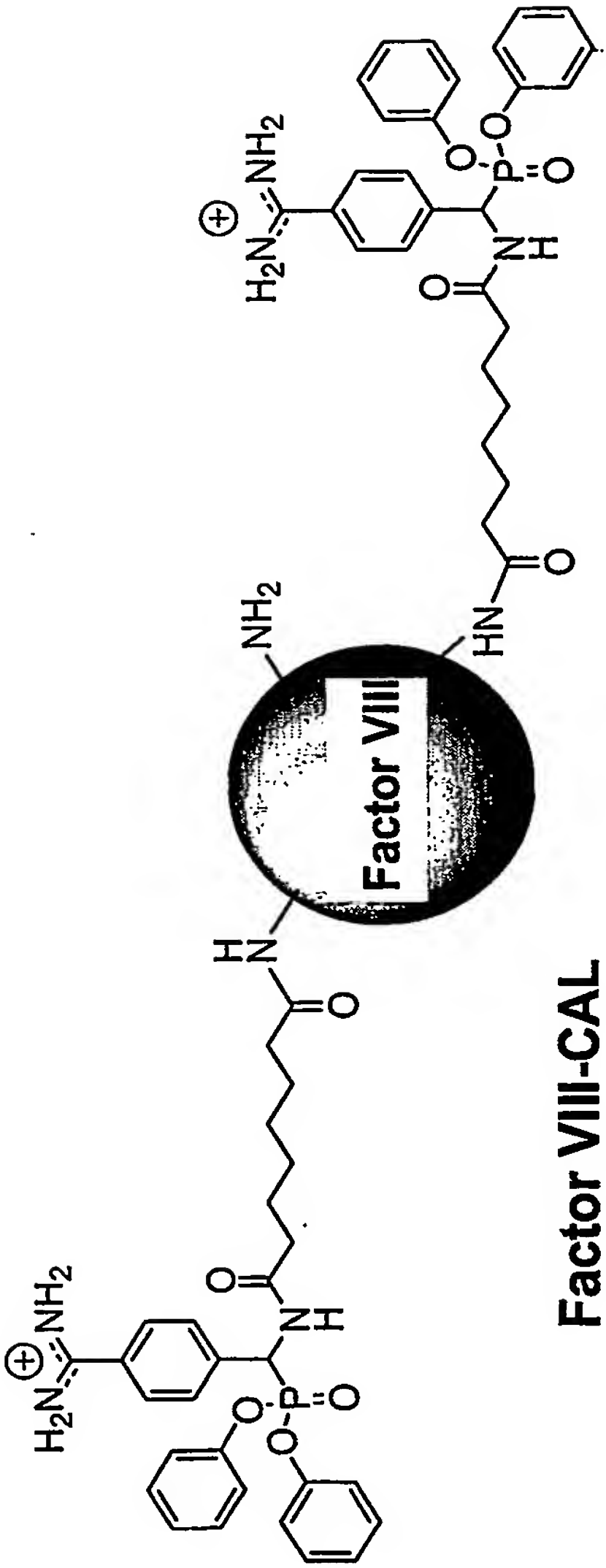


Fig 23

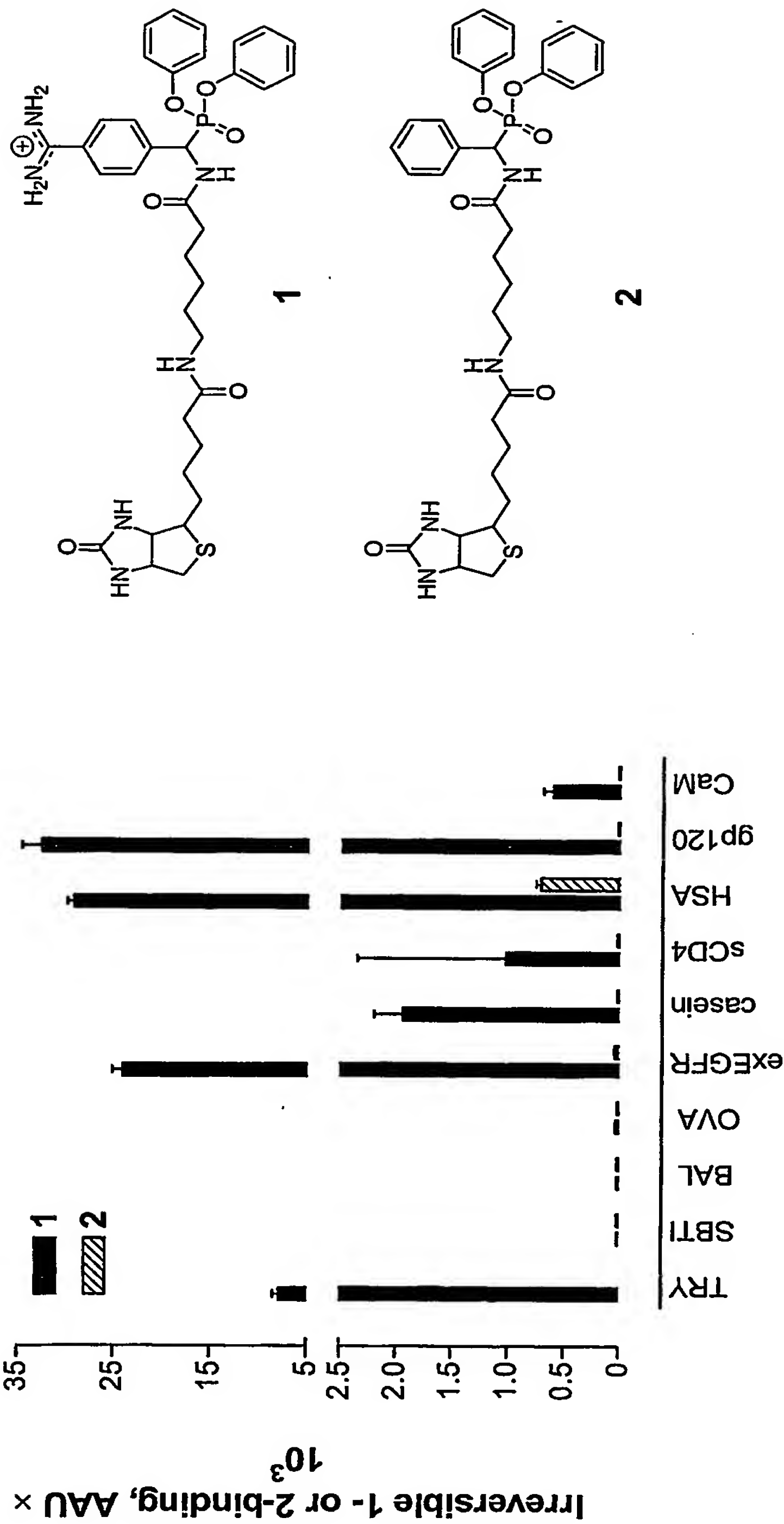


Fig 24

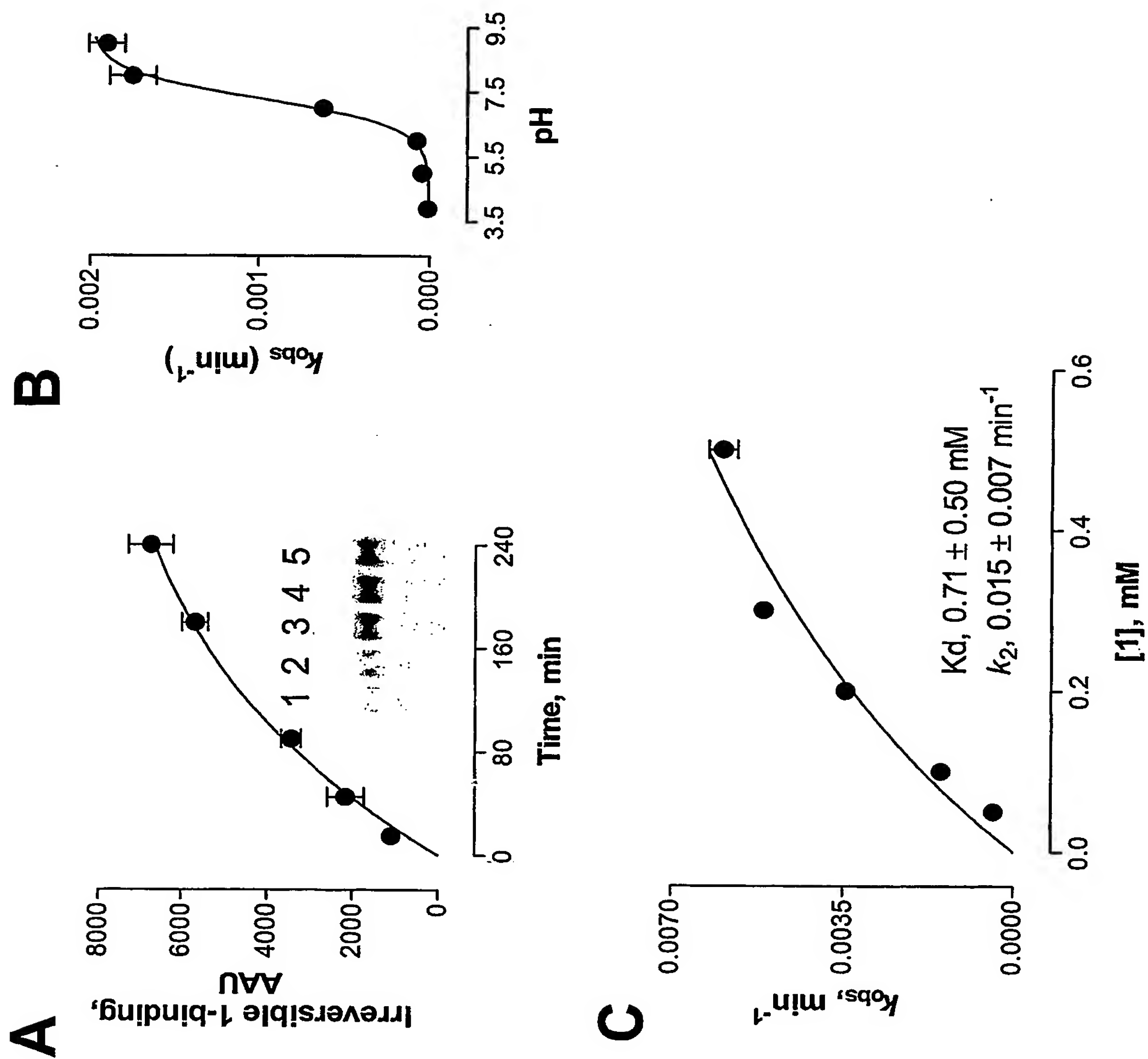
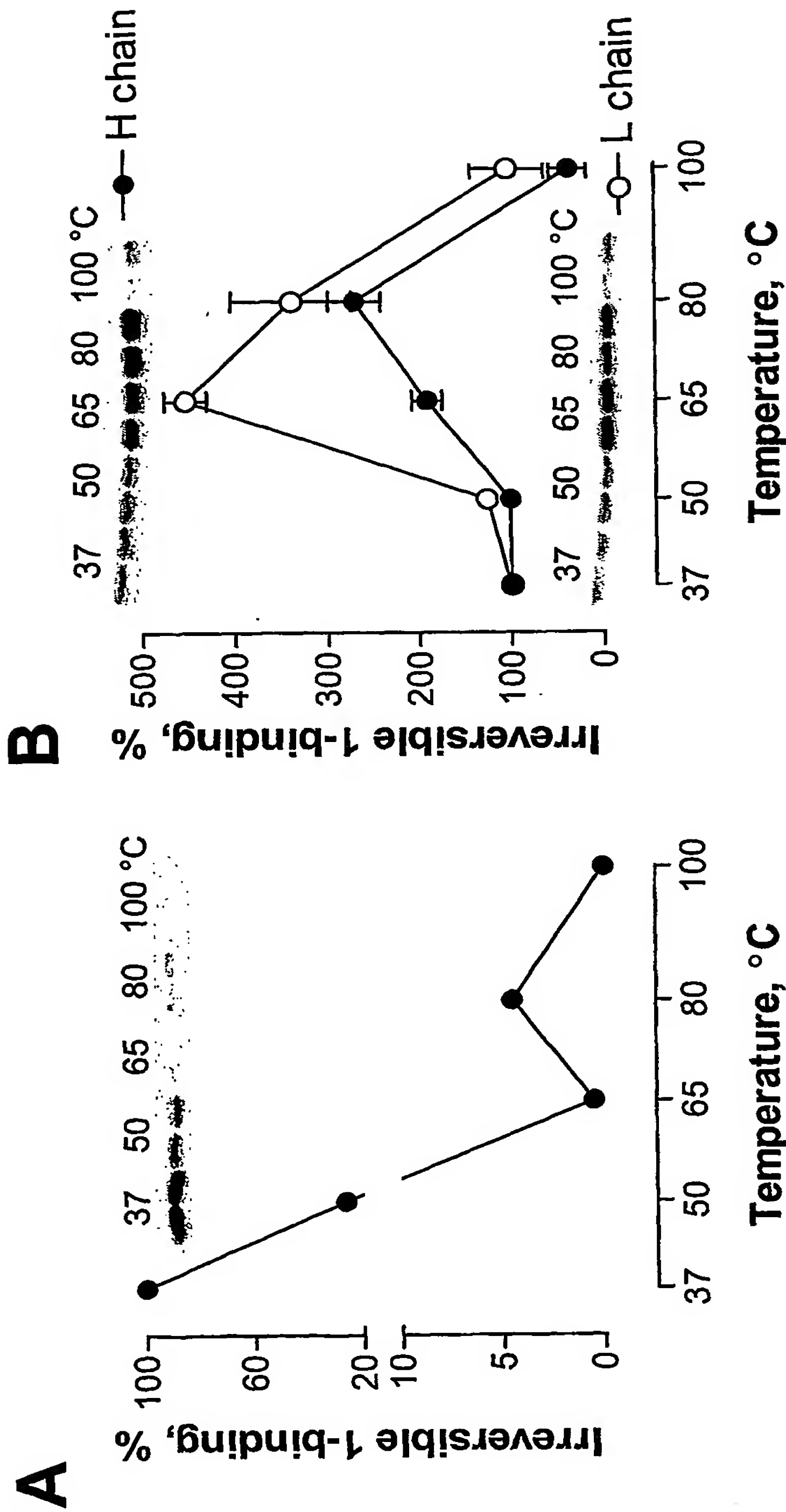


Fig 25



A

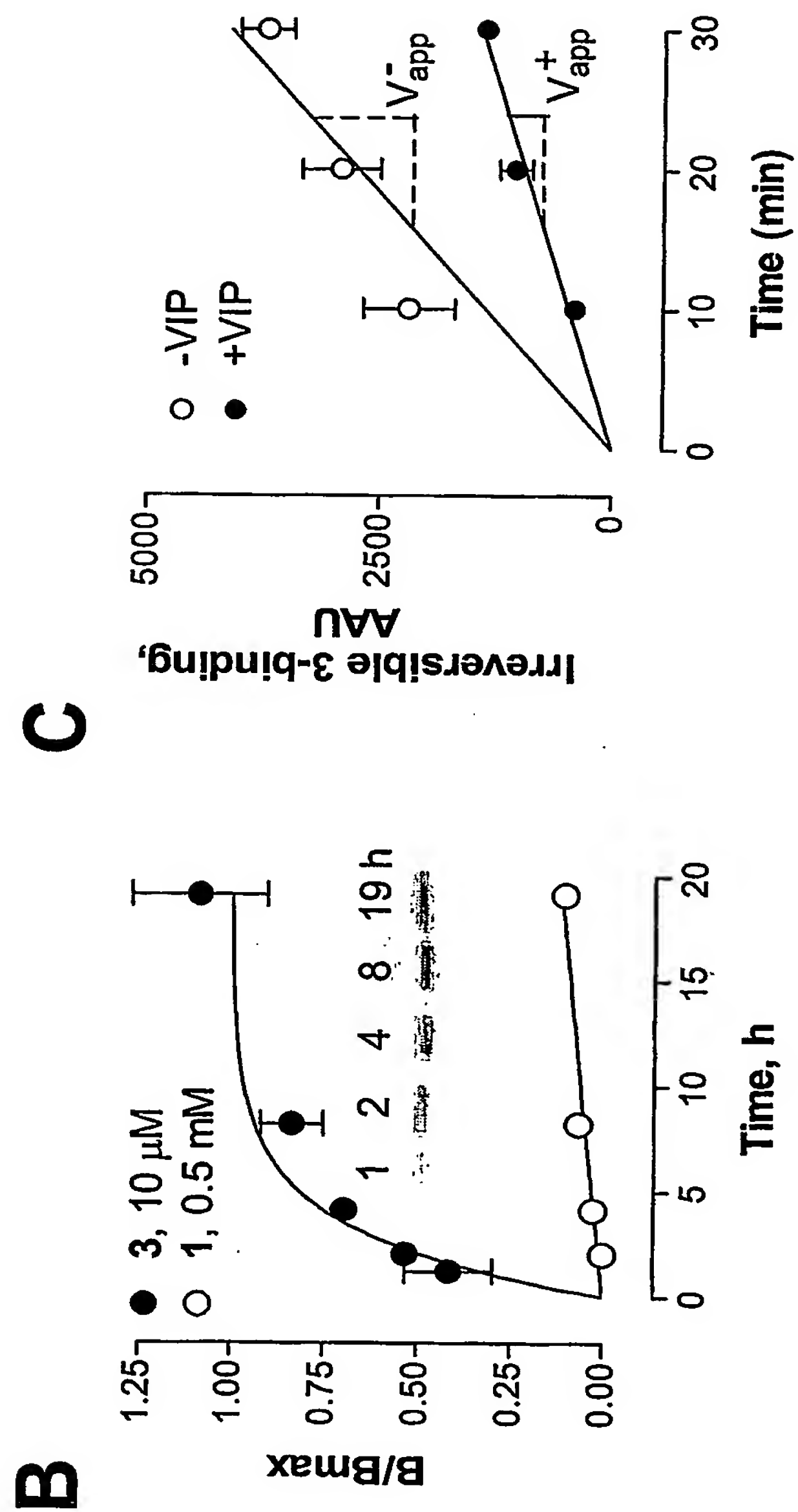


Fig 27

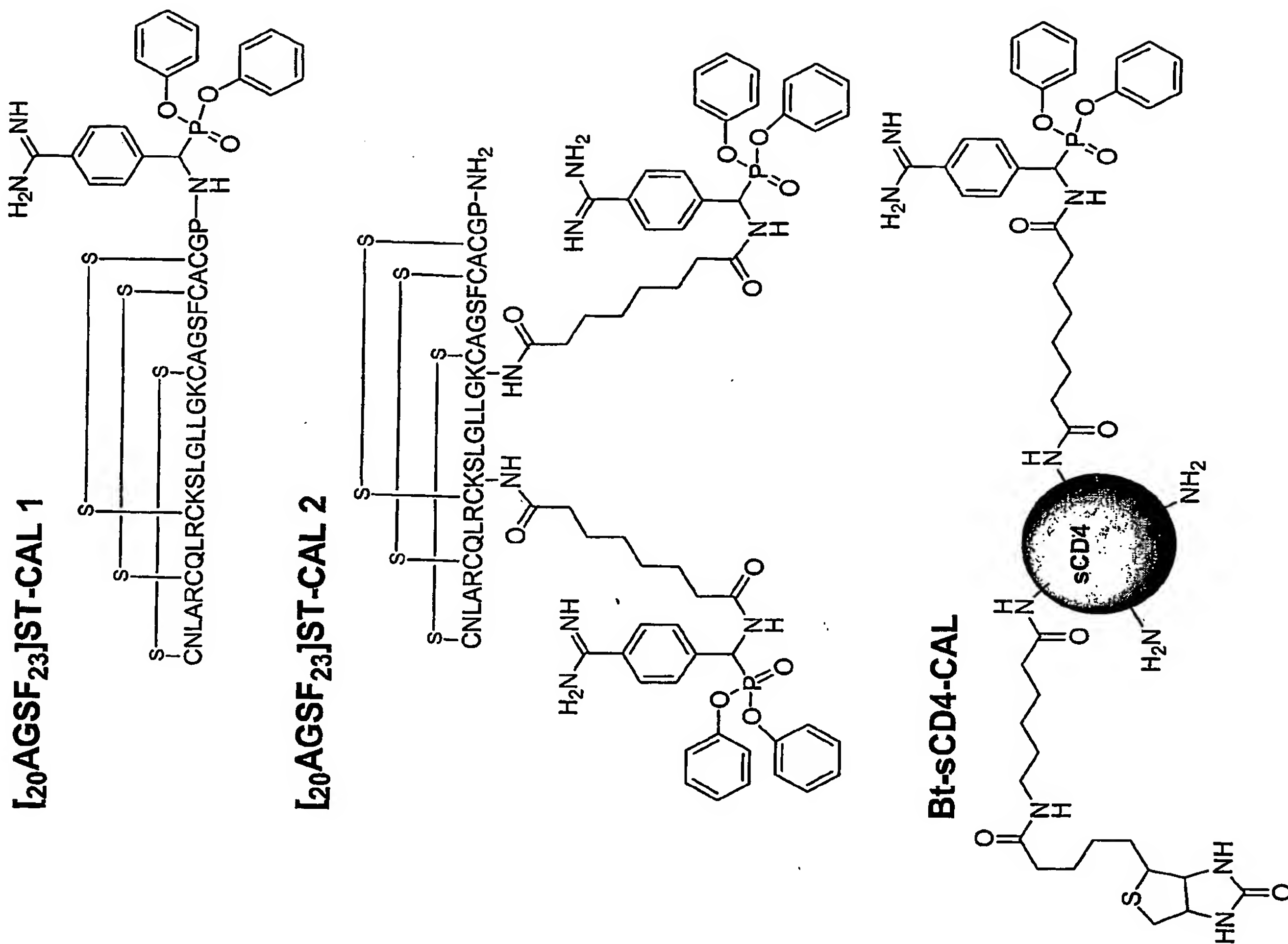


Fig 28

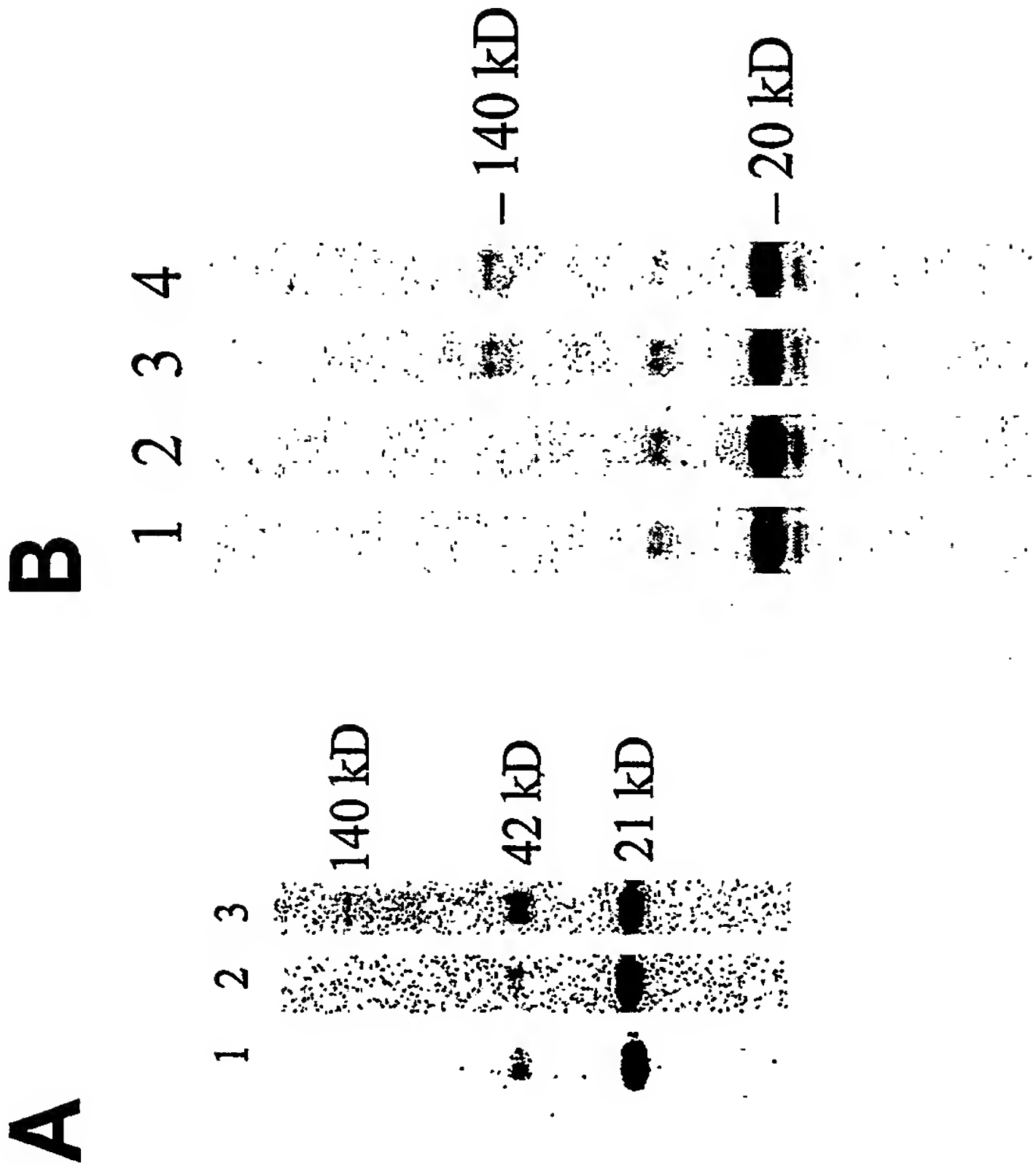


Fig 29

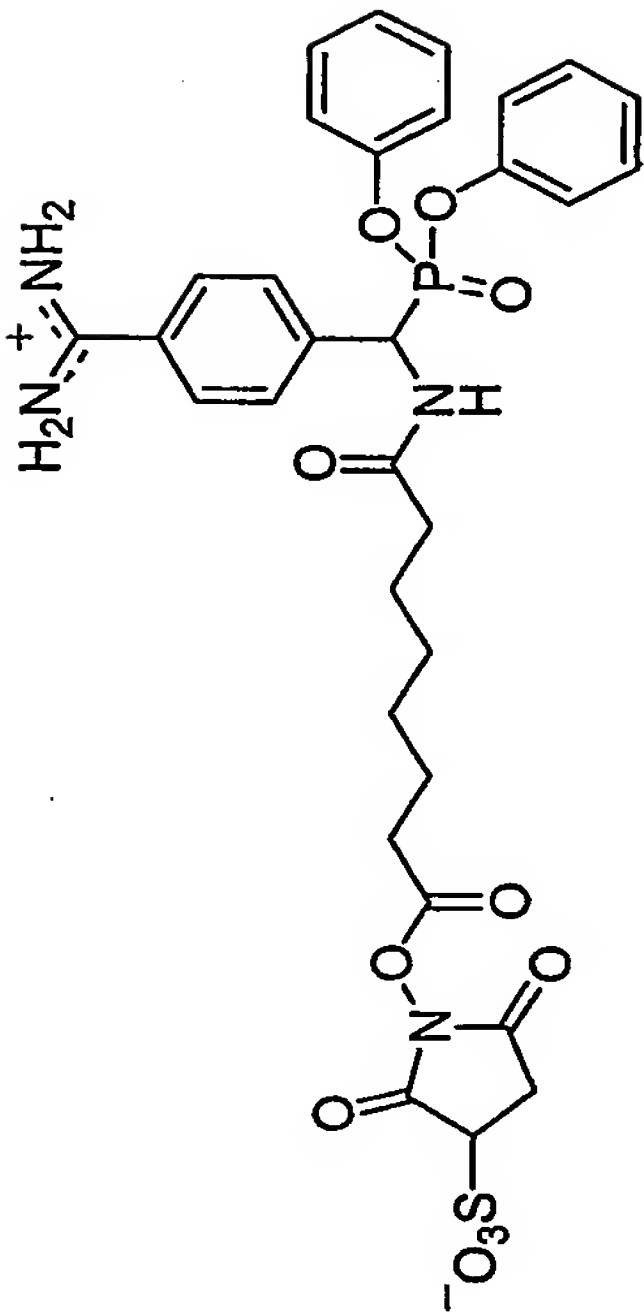
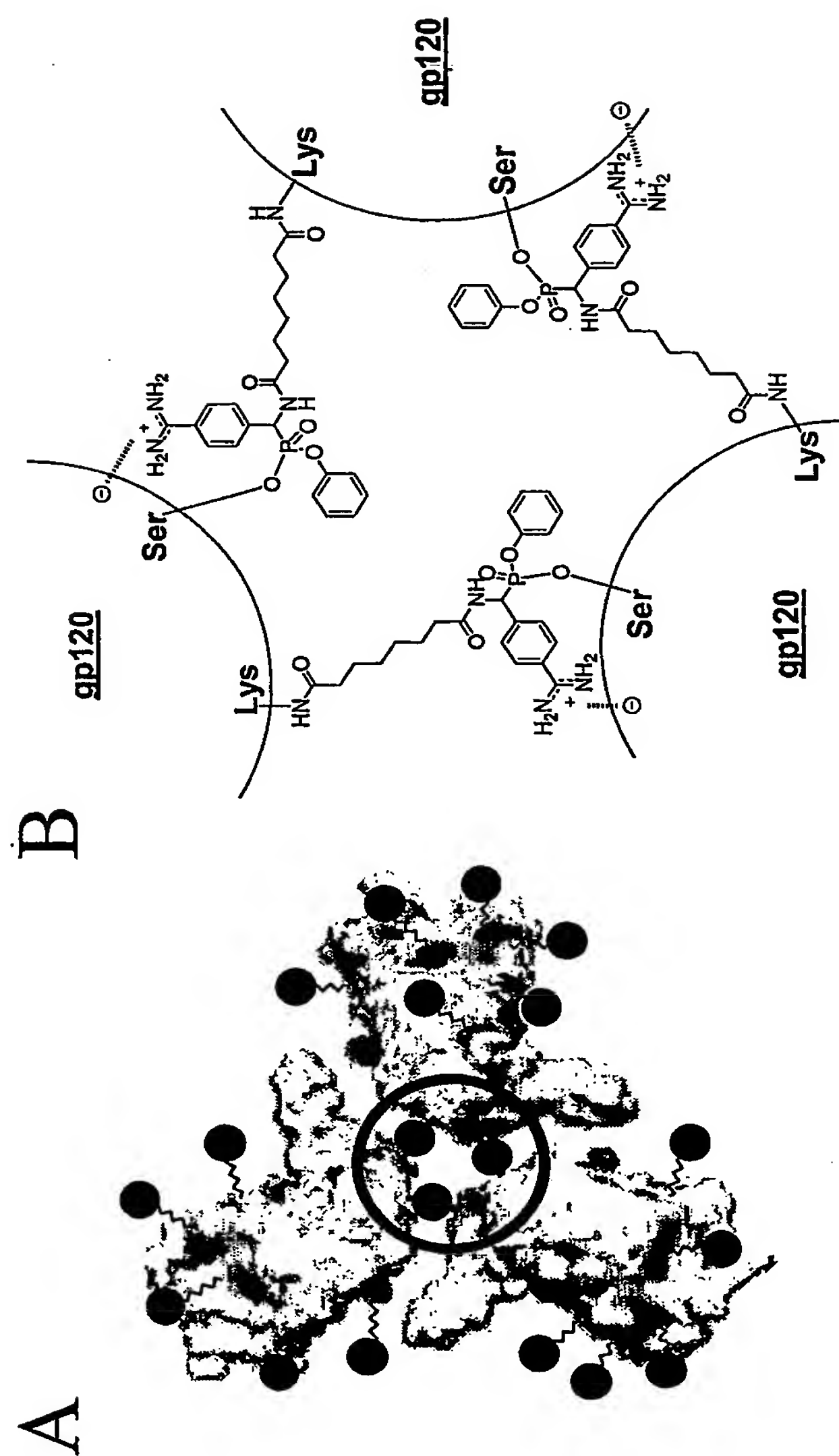




Fig 30





**Fig 31**

Fig 32

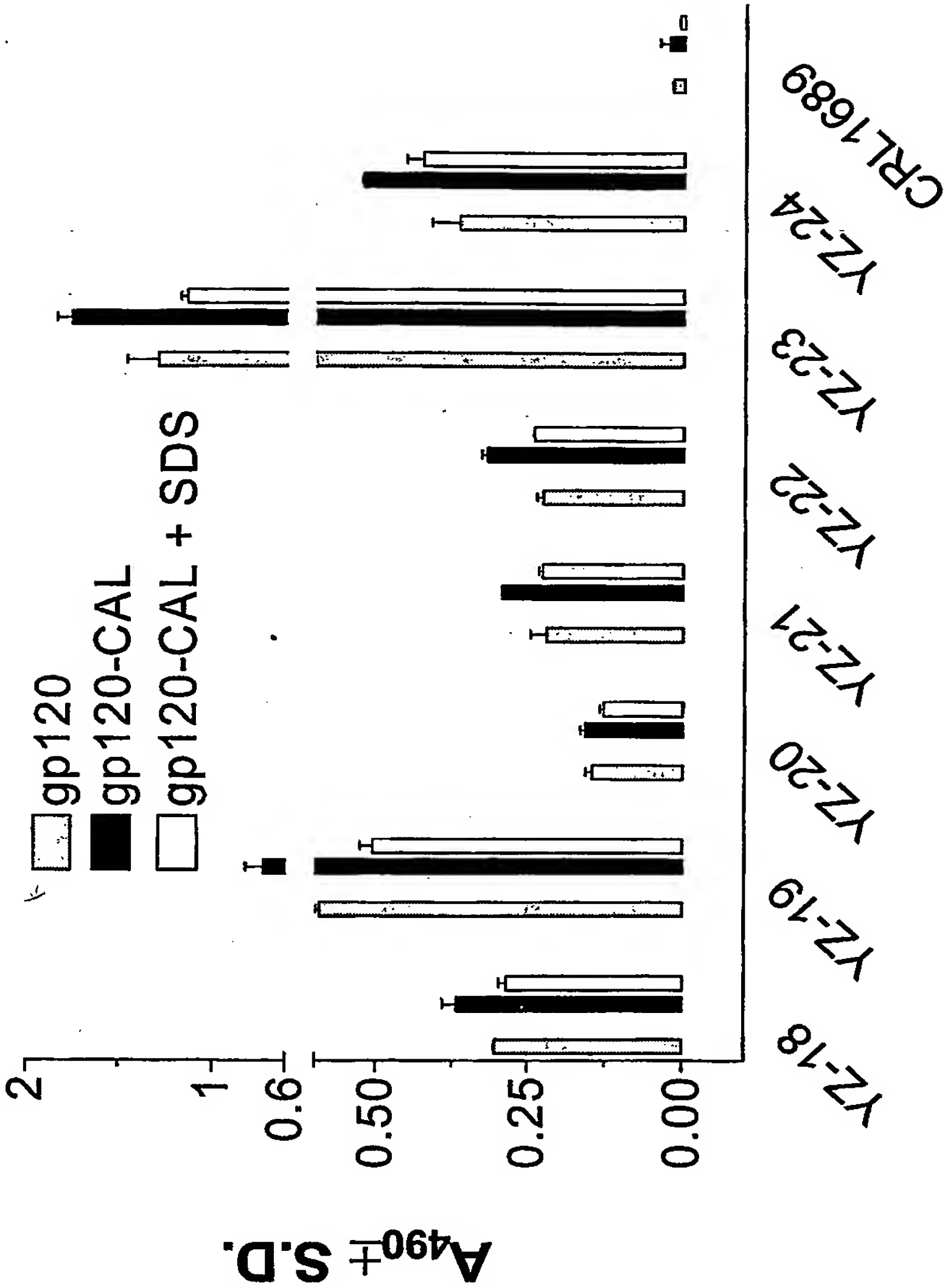
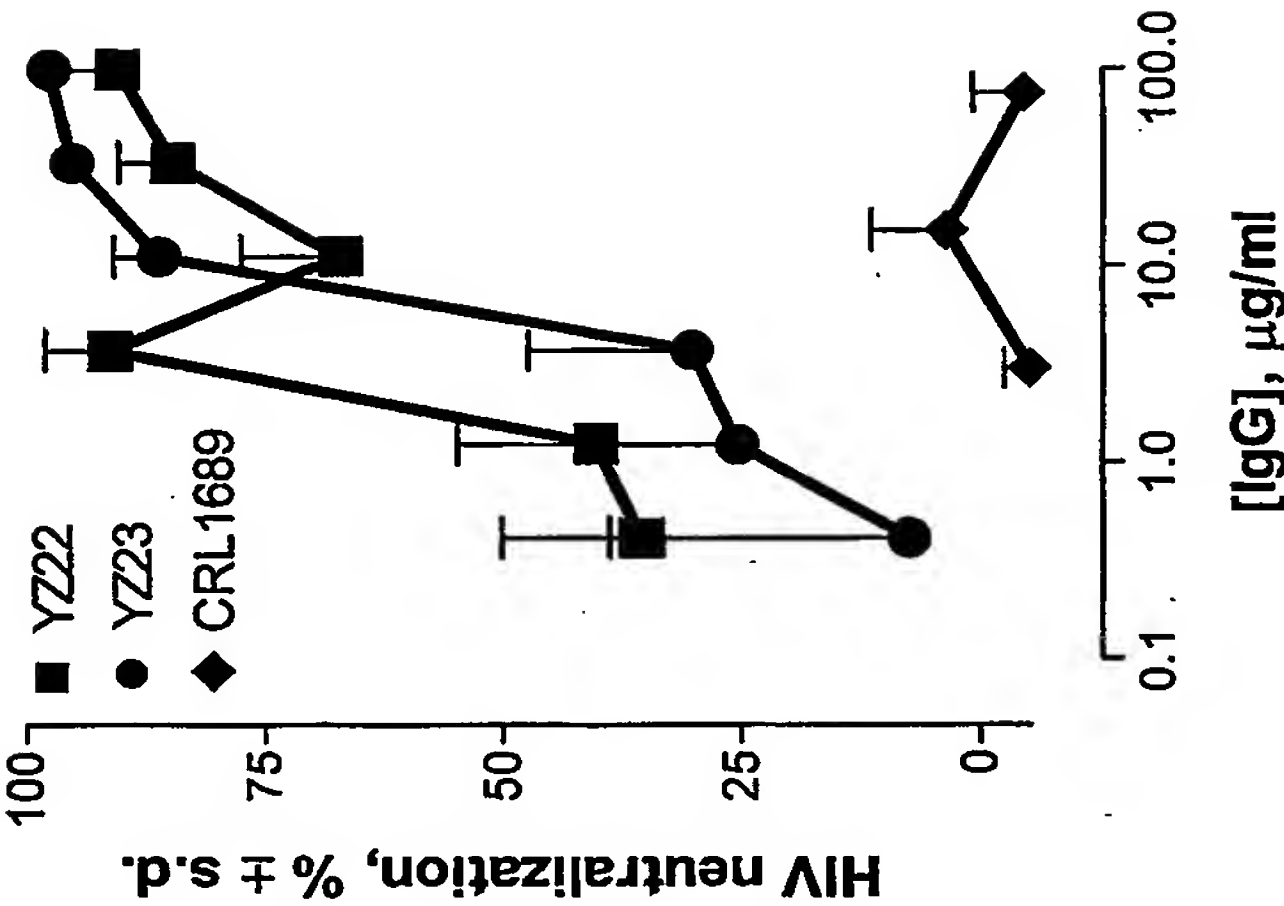


Fig 33



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